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(NASA-CR-134851) DEMONSTRATION OF SHORT HAUL AIRCRAFT AFT NOISE REDUCTION TECHNIQUES ON A TWENTY INCH (50.8 cm) DIAMETER FAN, VOLUME 3 (General Electric Co.) 725 p HC A99/MF A01 CSCL 21E G3/07

N80-15085

Unclas 33462



Demonstration of Short-Haul Aircraft Aft Noise Reduction ues on a Twenty Inch (50.8 cm) Diameter Fan

Volume III

By

D. L. Stimpert

GENERAL ELECTRIC COMPANY



prepared for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



NASA-Lewis Research Center
NAS3-18021

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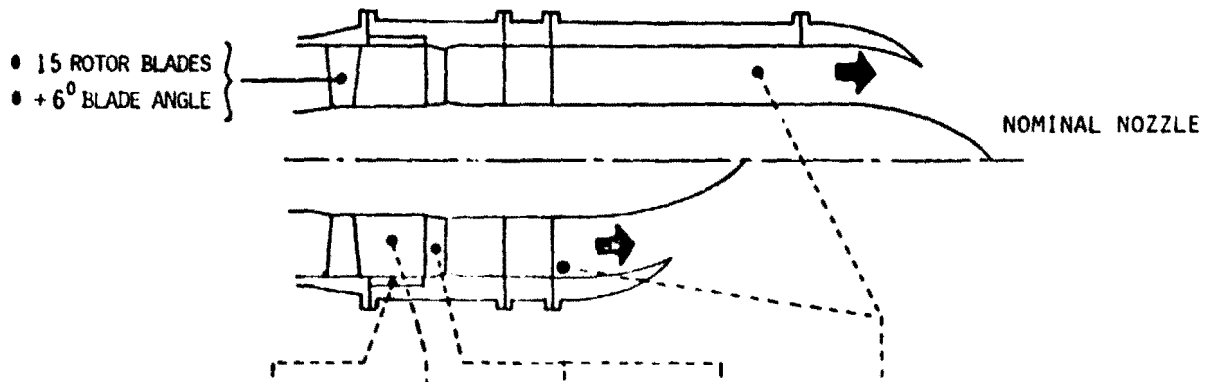
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DISCUSSION

This is the third of three volumes reporting test results of aft fan noise reduction techniques using a twenty inch (50.8 cm) diameter, low tip speed, low pressure ratio fan. In this volume, tabulated 1/3 octave band sound data are presented. They are model data and are presented on a 17 foot (5.2 cm) arc and extrapolated to a 200 foot 60.96 m) sideline.

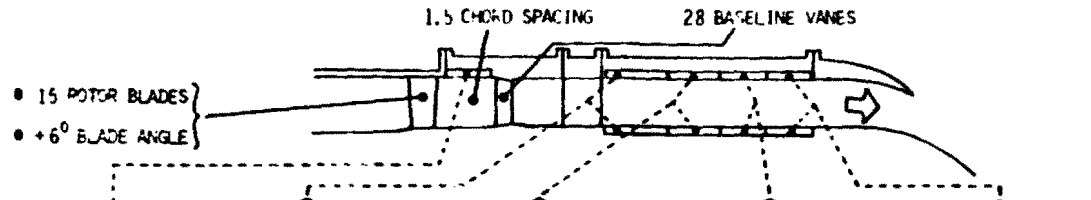
The configurations tested are tabulated in Tables I and II for the source noise and aft suppression tests, respectively. Data from each of these configurations are presented in this report. Table III describes the symbols and abbreviations used on the 1/3 octave band printout sheets.

Table 1. Source Noise Test Configurations.



CONFIGURATION	ROTOR-OGV TREATMENT	SPACING	VANE NUMBER	VANE/BLADE RATIO	DUCT LENGTH	COMMENTS
1B	NO	1.5	11	0.73	LONG	STAGE 55 VANES
2	YES	1.5	28	1.87	SHORT	BASELINE VANES
3A	↓	1.5	31	2.07	↓	BASELINE VANES
4B	↓	1.5	31	2.07	↓	LOW MACH VANES
5	↓	1.0	28	1.87	↓	BASELINE VANES
6	↓	1.5	28	1.87	LONG	↓
12	↓	1.5	26	1.73	SHORT	↓
13	↓	1.5	27	1.80	↓	↓
14A	↓	2.0	28	1.87	↓	↓
18	NO	1.5	28	1.87	LONG	↓
19	YES	1.5	25	1.67	SHORT	↓
20	↓	1.5	29	1.93	↓	↓
21	↓	1.5	30	2.00	↓	↓
22	↓	1.5	28	1.87	↓	(REPEAT OF CONFIG. 2)
27	NO	0.5	31	2.07	↓	↓
28	↓	↓	30	2.00	↓	↓
29	↓	↓	29	1.93	↓	↓
30	↓	↓	28	1.87	↓	↓
31	↓	↓	27	1.80	↓	↓
32	↓	↓	26	1.73	↓	↓
33	↓	↓	25	1.67	↓	↓

Table II. Aft Suppression Test Configurations.

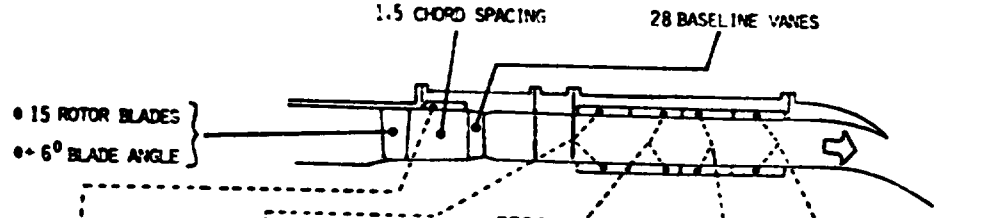


*INNER AND OUTER PANELS ARE THE SAME DEPTH AND POROSITY UNLESS OTHERWISE NOTED BY (I) AND (O).

**R DENOTES AERODYNAMIC RAKES IN FRONT OF THE ROTOR.

CONFIGURATION	ROTOR-OGV TREATMENT	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	NOZZLE	COMMENTS
6	YES	0	0	0	0	0	0	0	0	NOMINAL	
7,7R	NO	.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		
8,8R		.25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27		
9,9R		.50(1.27)	27	.25(.64)	27	.75(1.91)	27	1.5(3.81)	27		
10,10R		.50(1.27)	27	.25(.64)	27	.75(1.91)	27	1.5(3.81)	27	OPEN	WITH 0.6 IN.(1.52 CM) SPLITTER, L/H = 2.30
16,16R		.25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.0(2.54)	27	NOMINAL	
17		.75(1.91)	27	.75(1.91)	27	.75(1.91)	27	.75(1.91)	27		
18,18R		0	0	0	0	0	0	0	0		
23		0	0	0	0	0	0	0	0	OPEN	
24		(O).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27	NOMINAL	
		(I).75(1.91)	27	.75(1.91)	27	.75(1.91)	27	.75(1.91)	27		
25		(O).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.0(2.54)	27		SLANT CELL - LAST OUTER PANEL
		(I).25(.64)	27	.50(1.27)	27	.75(1.91)	27	1.5(3.81)	27		
26		1.5(3.81)	12	.75(1.91)	12	.50(1.27)	12	.25(.64)	12		
75-1A		0	0	0	0	0	0	.25(.64)	12		
75-1B								.50(1.27)	12		
75-1C								.75(1.91)	12		
75-1D								1.5(3.81)	12		
75-1E								1.0(2.54)	27		SLANT CELL
75-1F								0	0		

Table II Aft Suppression Test Configurations (Concluded).



• INNER AND OUTER PANELS ARE THE SAME DEPTH AND POROSITY UNLESS OTHERWISE NOTED BY (I) AND (O).

CONFIGURATION	ROTOR-OGV TREATMENT	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	DEPTH IN.(CM.)	POROSITY %	NOZZLE	COMMENTS
75-1G	NO	0	0	0	0	0	0	.25(.64)	27	NOMINAL	
75-1H								.50(1.27)	27		
75-1I								.75(1.91)	27		
75-1J								1.0(2.54)	27		
75-1K								1.5(3.81)	27		
75-2	YES	.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		
75-3	NO	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-4		(O).25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		
		(I).75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-5		1.5(3.81)	27	.75(1.91)	27	.50(1.27)	27	.25(.64)	27		
75-6A		.75(1.91)	12	.75(1.91)	12	.75(1.91)	12	.75(1.91)	12		
75-6B		0	0	0	0	0	0	0	0		STAGE 55 VANES
75-6C		1.5(3.81)	27	0	0	0	0	0	0		
75-6D		0	0	0	0	0	0	1.5(3.81)	27		
75-7		.25(.64)	12	.75(1.91)	27	.50(1.27)	12	1.5(3.81)	27		
75-8		.50(1.27)	12	.75(1.91)	12	.25(.64)	12	1.5(3.81)	27		
75-9		.25(.64)	12	.50(1.27)	12	.75(1.91)	12	1.5(3.81)	12		TREATMENT L/H = 3.68

Table III. 1/3 Octave Band Printout Nomenclature.

Symbol or Abbreviation	Definition	Units
BAR	Barometric pressure	in Hg (nt/m^2)
CONFIG	Configuration	
DATE	Test date	
HACT	Absolute humidity	gm/m^3
LOC	Location of test	
NFA	Physical model fan speed	RPM (rad/sec)
NFD	Model design fan speed	RPM (rad/sec)
NFK	Corrected model fan speed	RPM (rad/sec)
OVERALL CALCULATED	Overall sound pressure level	dB
PNdB	Perceived noise level	PNdB
PWL	Sound power level re 10^{-13} watts	dB
RADIAL	Arc distance	ft (m)
RUN	Schenectady run and data point number	
SIDELINE	Sideline distance	ft (m)
TAMB	Dry bulb temperature	^oF (^oK)
TWET	Wet bulb temperature	^oF (^oK)
VEHICLE	Test vehicle	

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	47.5	51.6	50.5	51.7	50.4	47.9	42.9	24.6	47.7	47.1							
VEHICLE R-SS 125	48.1	49.0	47.9	47.4	47.1	47.1	46.8	24.6	45.8	45.2							
CONFIG 1B 160	43.0	44.2	45.4	46.1	45.5	46.0	46.5	24.6	46.4	44.7							
LOC SCHENECTADY 200	40.4	43.8	44.8	46.5	47.2	48.4	49.2	24.4	48.5	46.7							
DATE 10/31/74 250	43.8	45.7	47.2	47.9	49.6	49.3	49.1	24.3	47.6	44.5							
RUN 6/20 315	47.5	48.9	49.6	50.8	50.0	50.5	50.2	24.2	47.0	43.8							
TAPE 400	45.9	47.6	49.1	49.5	50.4	50.8	49.6	24.1	47.1	43.3							
BAR 29.9 HG 500	45.8	46.7	48.0	49.4	49.6	50.5	50.3	24.0	47.2	42.6							
(1010 39. N/M2) 630	46.0	49.6	51.4	53.1	53.8	54.7	54.1	23.8	50.0	43.6							
TAMB 67. DEG F 800	48.3	50.2	51.8	52.7	53.7	54.5	54.7	23.7	50.6	42.5							
(293. DEG K) 1000	49.9	51.1	52.9	53.8	55.3	56.7	57.1	23.5	52.8	42.9							
TWET 64. DEG F 1250	55.8	60.5	63.3	65.5	66.2	66.8	65.4	23.3	59.1	48.1							
(291. DEG K) 1600	56.9	61.8	64.4	66.1	67.3	67.3	66.2	23.1	59.3	48.4							
RHO 1.25 GM/M3 2000	51.4	53.8	56.8	58.9	60.6	61.1	61.2	23.3	55.5	45.4							
(.0425 KG/M3) 2500	52.0	54.4	57.9	60.3	62.7	62.9	64.0	23.6	57.5	45.2							
NFA 5852. RPM 3150	51.9	54.8	57.3	60.7	62.9	62.8	64.1	23.2	57.7	46.2							
(592. RAD/SEC) 4000	49.4	52.3	55.4	58.8	60.4	61.3	61.3	23.5	53.8	42.5							
NFK 5609. RPM 5000	48.0	51.2	54.8	58.2	59.3	59.7	60.7	23.1	51.9	40.0							
(587. RAD/SEC) 6300	44.5	47.6	52.2	55.1	56.5	57.1	58.6	23.1	49.5	37.5							
NFD 8823. RPM 8000	40.8	43.7	48.8	51.9	52.5	54.2	55.9	23.6	47.0	33.7							
(924. RAD/SEC) 10000	38.3	41.5	46.7	49.9	50.7	52.7	53.3	23.5	43.5	29.4							
NO. OF BLADES 15 12500	34.4	37.6	43.2	47.4	47.8	49.6	50.4	23.3	39.1	22.7							
FAN TIP SPEED 16000	27.0	31.0	38.7	40.1	41.8	44.4	43.5	23.6	30.0	11.1							
493. FT/SEC 20000	20.7	25.0	32.6	35.0	35.5	37.5	37.0	24.1	21.4								
25000	11.3	16.0	23.1	25.6	24.9	27.9	26.0		5.9								
31500		3.7	13.6	12.4	13.0	14.6	11.3										
40000				1.2													
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.2	66.6	69.3	71.5	72.7	73.1	73.0	30.7	66.6	57.7							
PNDB	74.9	78.5	81.3	83.4	84.9	85.2	85.9	45.3	79.5	69.1							

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0.)10.	0.)10.	0.)10.	0.)10.	0.)10.	0.)10.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	70.2	73.7	72.2	73.3	72.1	70.1	66.0	49.2	74.3	77.2								106.0
VEHICLE R-55	125	70.9	71.2	69.7	69.0	68.9	69.4	70.8	49.2	72.5	75.4								104.2
CONFIG 10	160	65.9	66.4	67.2	67.8	67.4	68.4	69.7	49.2	73.3	75.2								102.8
LOC SCHENECTADY	200	63.4	66.1	66.7	68.3	69.9	70.9	72.5	49.2	75.5	77.4								104.7
DATE 10/31/74	250	66.9	68.1	69.2	69.8	70.6	71.8	72.5	49.2	74.7	75.4								104.8
RUN 9/23	315	70.7	71.4	71.7	72.8	72.1	73.1	73.7	49.2	74.3	74.9								106.2
TAPE	400	70.2	70.1	71.2	71.5	72.7	73.4	73.2	49.2	74.5	74.6								105.9
BAR 29.9 HG	500	69.2	69.4	70.2	71.6	71.9	73.4	74.0	49.2	74.8	74.2								105.8
(1013 39. MB)	630	71.4	72.4	73.7	75.3	76.2	77.6	78.0	49.2	77.8	75.4								109.3
TAMB 67. DEG F	800	71.9	73.1	74.2	75.1	76.2	77.6	78.7	49.2	78.5	74.7								109.8
(293. DEG K)	1000	73.7	74.1	75.5	76.3	77.9	79.8	81.2	49.2	81.0	75.4								111.6
TRET 64. DEG F	1250	79.7	83.6	86.1	88.1	89.0	90.1	89.7	49.2	87.5	80.9								121.0
(291. DEG K)	1600	81.0	85.1	87.3	88.9	90.2	90.8	90.7	49.2	88.1	81.7								122.0
MACT 14.25 GM/M3	2000	75.7	77.4	79.9	81.8	83.7	84.8	86.0	53.7	84.4	79.1								116.2
(.01425 KG/M3)	2500	76.5	78.1	81.1	83.4	86.0	86.8	88.9	49.2	86.8	79.4								118.4
NFA 5052. RPM	3150	76.7	78.1	80.9	84.2	86.5	87.8	89.4	49.2	87.5	81.1								118.9
(592. RAD/SEC)	4000	74.7	76.7	79.3	82.6	84.4	85.9	87.8	49.1	84.2	78.5								116.9
NFK 5509. RPM	5000	73.6	75.9	79.0	82.3	83.6	84.6	86.7	48.0	82.9	76.7								116.1
(587. RAD/SEC)	6300	70.9	73.0	77.1	79.9	81.5	82.8	85.5	48.0	81.8	76.0								114.5
NFB 8823. RPM	8000	68.5	70.3	74.8	77.7	78.6	81.0	84.1	45.0	81.2	75.8								112.9
(924. RAD/SEC)	10000	67.7	69.7	74.3	77.2	78.3	81.1	83.3	49.0	80.4	74.6								112.6
NO. OF BLADES 15	12500	66.3	68.2	72.9	77.8	77.6	80.4	83.8	48.9	79.9	73.7								112.2
FAN TIP SPEED	16000	63.0	65.4	72.2	73.3	75.1	79.8	80.4	49.2	77.3	71.5								110.3
493. FT/SEC	20000	62.2	64.4	70.9	72.9	73.8	77.3	79.5	49.5	77.1	71.5								109.7
	25000	60.5	62.6	68.2	70.3	70.2	75.0	76.6	48.1	73.7	67.4								107.5
	31500	59.9	60.8	68.7	67.0	68.3	72.4	73.8	46.9	70.5	65.4								106.8
	40000	62.4	60.6	64.6	70.5	64.3	68.4	66.9	46.8	65.9	60.8								104.2
	50000	59.9	63.9	74.0	70.9	63.4	69.1	63.4	47.6	62.4	59.9								108.8
	63000	63.1	65.6	71.8	69.9	65.6	71.1	64.2	52.8	63.0	60.9								110.4
	80000	65.2	68.8	69.7	68.8	69.4	73.4	70.3	58.8	60.2	63.6								115.8
OVERALL MEASURED																			
OVERALL CALCULATED		87.5	90.2	92.7	94.7	96.1	97.2	98.4	65.1	96.1	90.9								129.8
PNDB		99.8	102.3	104.6	106.7	108.5	109.4	111.1	75.8	109.4	104.8								

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.9	68.4	69.9	72.9	74.9	76.6	76.2	76.5	77.3	80.1								139.0
VEHICLE R-55	125	71.7	72.4	71.9	72.6	72.9	73.1	74.2	75.5	77.3	79.9								138.3
CONFIG 16	160	69.9	68.9	69.9	70.6	73.2	71.9	73.2	75.5	77.6	79.6								137.3
LOC SCHENECTADY	200	68.2	69.9	69.9	71.9	73.9	74.1	76.4	77.7	80.3	80.8								139.4
DATE 10/31/74	250	70.4	72.1	72.9	73.9	74.4	75.1	75.6	76.7	78.8	80.1								138.3
RUN 6/21	315	74.7	74.9	75.4	76.4	76.2	76.6	76.4	76.7	78.8	79.1								138.4
TAPE	400	73.2	73.1	73.7	74.9	75.7	75.9	76.6	77.5	78.6	78.3								139.8
BAR 29.9 MB	500	71.9	71.9	72.7	74.4	74.9	76.1	76.9	77.5	78.3	77.9								139.5
(101339. N/M2)	630	73.9	75.2	76.7	77.9	78.7	80.6	80.7	80.7	80.6	78.6								142.8
AMB 67. DEG F	800	74.4	75.9	76.9	77.9	79.5	80.1	81.4	81.6	81.3	77.6								143.0
(293. DEG K)	1000	75.4	76.4	77.5	79.1	81.0	82.3	83.4	84.0	83.6	77.9								144.9
WET 64. DEG F	1250	75.5	77.9	80.3	82.9	85.0	86.6	86.9	86.2	85.6	78.9								146.0
(291. DEG K)	1600	86.5	91.6	87.3	91.5	95.7	99.3	98.1	97.5	90.4	89.9								159.6
HACT 14.25 GM/M3	2000	80.2	82.9	84.3	86.7	89.2	90.3	90.1	88.7	87.9	80.8								151.4
(.01425 KG/M3)	2500	79.0	80.6	83.3	85.7	88.0	89.8	88.6	89.2	86.4	79.8								150.5
NFA 6472. RPM	3150	90.0	89.1	89.6	90.2	91.5	95.7	101.3	95.9	91.4	84.3								150.7
(678. RAD/SEC)	4000	78.9	80.5	83.0	85.7	87.4	89.4	90.4	90.6	85.8	80.4								151.1
NFK 6423. RPM	5000	77.4	81.1	82.7	85.9	86.9	89.3	90.3	91.0	85.7	80.1								151.1
(672. RAD/SEC)	6300	76.1	79.0	82.3	84.9	86.0	88.0	90.4	90.0	85.1	79.7								150.4
NFD 6823. RPM	8000	72.7	75.8	79.2	82.8	83.3	86.0	87.3	87.8	83.5	77.7								148.3
(924. RAD/SEC)	10000	71.9	74.4	78.7	81.3	82.6	86.1	86.7	88.6	83.2	77.8								148.6
NO. OF BLADES 15	12500	70.3	73.9	77.6	80.8	81.6	84.9	87.4	88.9	82.7	76.9								148.1
FAN TIP SPEED	16000	68.5	70.6	74.4	77.6	79.6	82.5	85.3	86.8	80.4	74.4								145.6
565. FT/SEC	20000	67.7	68.9	73.3	76.2	78.3	82.8	83.9	86.5	79.7	74.2								145.0
	25000	66.8	66.8	71.9	74.8	75.5	79.7	81.8	83.4	77.3	71.8								143.9
	31500	63.6	64.6	69.4	71.8	73.6	76.7	78.2	80.2	74.6	69.1								141.8
	40000	66.2	61.8	67.6	68.4	69.1	71.9	72.8	74.3	70.0	65.2								138.2
	50000	62.1	63.9	69.2	69.8	68.6	69.9	68.5	70.7	68.2	64.1								138.5
	63000	67.1	66.1	70.8	71.7	70.7	71.6	69.6	70.8	68.8	67.9								142.8
	80000	66.2	63.8	73.1	73.6	73.9	74.6	73.7	73.1	72.2	69.3								149.4
OVERALL MEASURED																			
OVERALL CALCULATED		93.3	95.2	95.1	97.5	99.8	102.9	104.6	102.8	101.1	94.8								134.6
	PNDB	108.1	108.6	108.5	111.0	112.5	115.7	118.1	116.1	113.7	107.4								

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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.75)	111. (1.94)	124. (2.15)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	45.2	46.3	48.2	51.3	53.2	54.4	53.1	52.0	50.9	50.0							
VEHICLE MASS 125	48.9	50.3	50.1	51.0	51.1	50.8	51.0	50.9	50.7	49.6							
CONFIG 18 160	46.9	48.7	48.1	49.9	49.3	49.5	49.9	50.8	50.8	49.1							
LOC SCHENECTADY 200	45.2	47.6	48.0	50.1	51.9	51.7	53.1	53.0	53.4	50.2							
DATE 10/31/74 250	47.3	49.7	50.9	52.8	52.3	52.4	52.2	51.9	51.7	49.2							
RUN 9/21 315	51.5	52.4	53.3	54.4	54.8	54.8	52.9	51.7	51.3	48.9							
TAPE 400	49.9	50.6	51.5	52.8	53.4	53.1	53.0	52.4	51.2	47.0							
BAR 29.0 HG 500	49.6	49.2	50.4	52.2	52.6	53.3	53.2	52.2	50.8	46.3							
(98139. N/M2) 630	50.5	52.4	54.3	55.7	56.3	57.7	56.8	55.4	52.8	46.8							
TAMB 67. DEG F 800	50.8	53.0	54.5	55.5	56.9	57.8	57.4	55.4	53.4	45.5							
(293. DEG K) 1000	51.7	53.4	54.8	56.7	58.3	59.2	59.3	58.3	55.4	45.4							
T-ET 84. DEG F 1250	51.5	54.7	57.5	60.3	62.2	63.3	62.6	60.3	57.2	46.8							
(292. DEG K) 1600	62.4	68.3	64.4	68.7	72.6	75.8	73.6	71.4	69.7	56.6							
HACT14.2% GM/M3 2000	55.9	58.3	61.2	63.8	65.1	66.6	65.4	62.4	58.8	47.1							
(.01425 KG/M3) 2500	54.5	56.9	60.1	62.6	64.7	65.1	63.7	62.6	57.8	45.4							
NFA 6472. RPM 3150	65.2	65.9	66.8	66.8	67.9	71.6	76.0	68.9	61.5	49.4							
(678. RAD/SEC) 4000	53.6	56.8	59.1	61.9	63.4	64.8	64.7	63.8	55.2	44.4							
NFK 6423. RPM 5330	51.8	56.4	58.5	61.8	62.6	64.4	64.3	63.1	54.7	43.5							
(672. RAD/SEC) 6300	49.7	53.6	57.4	60.2	61.8	62.4	63.5	61.1	52.8	41.2							
NFD 6823. RPM 8000	45.1	49.2	53.2	56.2	57.3	59.2	59.1	57.4	49.3	38.4							
(826. RAD/SEC) 10000	42.6	46.3	51.2	53.0	55.8	57.7	56.7	56.0	46.3	32.8							
NO. OF BLADES 15 12500	38.4	43.4	47.0	51.3	51.8	54.1	54.8	53.3	41.0	29.0							
FAN TIP SPEED 16000	32.5	38.3	40.9	44.4	46.1	47.9	48.4	45.3	33.1	14.8							
565. FT/SEC 20000	26.2	29.5	35.1	38.3	40.8	42.2	41.4	39.2	24.8	1.9							
25000	17.6	20.2	28.8	33.2	36.2	32.6	31.1	26.5	9.4								
31500	3.8	7.4	14.3	17.3	18.2	18.8	18.7	9.4									
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.6	71.5	71.4	74.8	76.3	78.8	78.2	75.5	71.8	61.7							
PNDB	83.3	84.7	86.0	87.6	88.9	91.5	93.8	89.1	84.5	73.2							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.2	70.2	68.9	70.9	72.4	73.1	73.4	76.2	80.8	83.9								109.6
VEHICLE R-55	125	78.4	76.9	76.2	77.6	78.2	76.9	76.9	78.0	81.3	84.4								112.5
CONFIG 18	160	71.9	72.2	72.9	73.9	73.9	75.9	77.2	79.2	82.3	83.6								111.3
LOC SCHENECTADY	200	70.4	72.1	73.2	74.5	76.6	77.9	78.6	81.0	83.6	85.1								112.7
DATE 10/31/74	250	74.2	76.1	76.6	77.9	77.9	79.8	80.4	82.0	82.8	84.1								113.6
RUN 9/22	315	76.9	77.4	77.7	78.6	78.7	79.1	79.6	80.7	82.8	82.6								113.4
TAPE	400	74.9	75.9	76.4	77.1	78.4	79.1	79.4	80.2	81.8	82.1								112.7
BAR 29.9 HG	500	74.7	74.6	75.7	77.4	77.7	79.1	79.7	80.5	81.8	81.1								112.5
(01039. N/M2)	630	76.2	77.9	78.9	80.4	81.5	82.9	83.4	83.2	83.4	81.1								115.3
TAMB 67. DEG F	800	76.9	78.1	79.9	80.9	82.2	83.1	84.2	84.0	83.3	80.9								115.8
(293. DEG K)	1000	77.9	78.6	79.7	81.4	83.0	84.3	85.6	86.0	84.6	80.1								116.9
TWET 64. DEG F	1250	77.5	79.6	82.0	84.4	86.5	87.8	88.4	88.2	86.4	81.1								119.5
(291. DEG K)	1600	82.5	85.4	86.8	91.0	94.0	94.8	94.6	94.7	91.1	83.4								126.0
HACT 14.25 GM/M3	2000	85.5	88.4	90.3	95.2	98.7	99.8	99.4	99.2	95.9	87.3								130.6
(.01425 KG/M3)	2500	82.5	84.4	86.8	89.7	91.5	92.0	91.6	92.2	86.6	81.8								123.6
NFA 7270. RPM	3150	82.0	84.6	87.3	90.2	92.0	93.0	92.3	94.4	88.4	83.0								124.6
(761. RAD/SEC)	4000	81.9	84.2	87.5	90.7	92.9	93.9	94.7	97.6	89.3	84.4								126.3
NFK 7215. RPM	5000	79.9	82.6	86.0	89.1	89.8	92.3	93.1	93.0	87.5	81.4								123.8
(755. RAD/SEC)	6300	78.9	82.0	86.3	89.7	90.3	91.0	92.6	92.5	86.4	81.4								123.4
NFD 8823. RPM	8000	77.5	80.3	84.7	86.8	87.8	89.7	92.0	92.5	86.3	80.4								122.4
(924. RAD/SEC)	10000	75.4	79.4	83.2	86.0	86.8	90.4	90.9	91.6	85.7	80.0								121.9
NO. OF BLADES 15	12500	74.0	77.9	81.4	84.6	85.6	88.1	90.4	90.6	85.2	79.1								120.9
FAN TIP SPEED	16000	71.5	75.1	78.9	81.8	83.6	87.0	88.3	88.8	82.6	76.9								119.3
635. FT/SEC	20000	69.9	73.9	77.6	81.2	82.8	86.8	88.4	89.7	82.2	77.2								119.8
	25000	68.5	71.8	75.9	79.3	80.7	84.5	86.5	87.4	80.5	74.6								118.3
	31500	65.4	69.1	73.2	76.1	77.8	81.2	82.5	83.9	77.8	72.1								115.8
	40000	61.9	65.6	69.1	71.4	73.8	76.2	75.8	77.3	73.0	67.7								111.6
	50000	62.4	65.9	70.7	71.3	71.9	73.4	71.8	73.4	70.7	67.1								111.1
	63000	64.4	68.8	72.8	74.7	74.7	75.6	72.6	73.6	71.6	68.4								115.7
	80000	71.2	74.0	75.6	78.6	79.6	81.1	78.2	78.4	76.2	71.3								124.4
OVERALL MEASURED																			
OVERALL CALCULATED		92.6	95.0	97.5	100.9	103.1	104.4	104.7	105.4	100.9	96.4								136.4
	PNDB	105.5	108.0	110.3	113.9	116.3	117.5	117.5	118.5	114.3	108.5								

 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.5	48.1	47.2	49.3	50.7	50.9	50.3	51.8	54.3	53.8							
125	55.6	54.8	54.4	56.0	56.3	54.6	53.8	53.4	54.7	54.1							
160	49.0	49.9	51.1	52.1	52.0	53.5	53.9	54.6	55.5	53.1							
200	47.4	49.8	51.2	52.8	54.7	55.4	55.3	56.2	56.6	54.4							
250	51.1	53.7	54.6	56.0	55.8	57.3	57.0	57.1	55.7	53.2							
315	53.8	54.9	55.6	56.7	56.5	56.5	56.1	55.7	55.6	51.5							
400	51.7	53.3	54.3	55.1	56.2	56.4	55.8	55.1	54.4	50.8							
500	51.3	52.0	53.4	55.2	55.4	56.3	55.9	55.2	54.3	49.5							
630	52.7	55.1	56.6	58.2	59.0	59.9	59.6	57.9	55.6	49.3							
800	53.3	55.2	57.5	58.5	59.7	60.0	60.2	58.4	55.4	48.7							
1000	54.2	55.6	57.1	58.9	60.3	61.2	61.5	60.3	56.4	47.6							
1250	53.5	56.5	59.3	61.8	63.7	64.5	64.1	62.3	57.9	48.3							
1600	58.4	62.0	63.9	68.2	71.0	71.3	70.1	68.6	62.4	50.1							
2000	61.2	64.8	67.2	72.3	75.6	76.1	74.7	72.9	66.8	53.6							
2500	58.0	60.6	63.6	66.6	68.2	69.1	66.7	65.6	57.3	47.6							
3150	57.2	60.5	63.8	66.8	68.4	68.8	67.0	67.4	58.5	48.1							
4000	56.6	59.8	63.6	66.9	68.9	69.3	68.9	70.0	58.7	48.4							
5000	54.3	57.9	61.8	65.1	65.6	67.4	67.1	65.1	56.5	44.7							
6300	52.5	56.6	61.4	64.9	65.3	65.4	65.7	63.6	54.1	42.9							
8000	49.8	53.7	58.7	61.0	61.8	62.9	63.9	62.1	52.1	39.1							
10000	46.1	51.3	55.7	58.7	59.2	62.0	61.0	59.0	48.8	34.8							
12500	42.1	47.4	51.6	55.0	55.8	57.3	57.8	55.0	44.4	28.2							
16000	35.5	40.8	45.4	48.7	50.1	52.4	51.4	48.1	35.3	18.5							
20000	28.5	34.5	39.3	43.3	44.5	47.0	45.9	42.4	26.5	4.5							
25000	19.3	25.2	30.8	34.7	35.5	37.4	35.9	30.5	12.7								
31500	4.8	11.9	18.0	21.5	22.5	23.3	20.0	13.2									
40000				2.0	3.4	2.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.0	70.9	73.6	77.2	79.4	80.0	79.0	77.8	71.4	63.8							
PNDB	80.9	84.1	86.8	90.6	92.9	93.5	92.5	91.2	84.9	74.2							

SIDELINE 200. FT.
(60.96 M)
VEHICLE R-55
CONFIG 18
LOC SCHENECTADY
DATE 10/31/74
RUN 9/22
TAPE
BAR 29.9 HG
(01039. N/M2)
TAMB 67. DEG F
(293. DEG K)
TWET 64. DEG F
(291. DEG K)
HACT 14.25 GM/M3
(.01425 KG/M3)
NFA 7270. RPM
(761. RAD/SEC)
NFK 7215. RPM
(755. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
835. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
50																		
63																		
80																		
100	76.9	74.9	73.2	75.6	75.7	75.6	75.2	79.5	84.3	87.9								113.2
125	79.4	79.6	80.7	83.9	84.4	82.9	83.7	84.5	85.4	88.6								117.6
160	75.4	76.9	77.4	79.1	78.9	79.9	80.7	83.0	85.6	87.6								115.2
200	73.6	75.6	76.4	78.6	80.4	80.8	82.6	84.0	87.3	89.1								116.3
250	79.9	81.6	83.6	84.9	85.6	86.1	87.6	89.2	90.8	90.3								120.6
315	80.4	80.6	81.4	82.9	82.2	82.8	83.6	85.0	86.6	87.6								117.4
400	78.6	79.1	79.7	81.1	81.4	82.1	82.4	83.5	85.6	86.3								116.1
500	77.4	77.6	78.4	80.4	80.9	82.1	82.9	83.7	85.1	84.6								115.6
630	79.1	80.6	81.9	84.2	84.5	85.6	85.9	86.2	86.1	84.4								118.2
800	80.6	81.9	82.7	84.4	85.2	86.3	86.7	87.2	86.6	84.6								119.0
1000	80.1	80.6	82.2	84.4	85.2	86.6	87.9	87.7	86.6	83.4								119.1
1250	80.2	81.9	84.5	86.7	88.5	89.8	90.1	90.0	87.1	83.9								121.4
1600	83.7	85.9	87.8	90.7	91.5	91.8	92.1	92.5	87.4	83.1								124.0
2000	99.9	101.9	104.1	104.3	102.2	104.6	100.4	99.5	95.1	93.3								137.8
2500	87.4	89.1	92.1	95.2	96.0	95.8	94.8	96.9	88.9	85.1								127.7
3150	84.9	87.3	90.3	93.0	94.5	94.5	94.0	95.7	89.4	85.0								126.5
4000	87.1	90.0	95.0	96.7	95.6	97.4	98.7	98.6	92.0	87.7								129.8
5000	82.8	85.6	89.7	92.1	92.8	95.0	95.3	94.8	89.0	83.6								126.3
6300	82.3	85.8	89.8	92.7	93.8	95.2	95.6	96.0	88.9	84.4								126.9
8000	81.9	85.3	90.0	90.8	91.6	93.5	94.5	94.0	88.0	83.4								125.4
10000	80.4	83.7	87.5	90.3	91.6	94.1	94.7	95.3	87.7	83.3								125.8
12500	78.2	82.7	86.4	89.1	90.4	93.4	93.6	94.6	87.7	82.6								125.1
16000	76.0	79.6	82.6	86.8	87.6	91.0	91.8	92.0	85.1	80.4								123.0
20000	75.1	78.6	82.3	86.0	87.1	90.5	91.9	92.5	85.5	79.7								123.4
25000	73.2	76.6	81.1	84.1	85.5	89.7	91.3	92.1	85.0	79.6								123.2
31500	71.1	73.8	77.4	81.1	83.1	85.9	87.5	88.4	81.8	76.1								120.6
40000	67.9	71.6	72.8	76.4	77.8	80.7	80.0	81.3	76.3	70.2								115.8
50000	68.3	73.1	72.7	76.0	75.9	79.4	74.0	75.4	72.2	68.6								115.1
63000	70.6	76.1	75.5	80.0	78.9	80.6	70.6	72.1	69.1	69.6								119.5
80000	75.4	80.2	80.9	85.3	83.9	82.8	73.4	72.6	71.2	72.8								127.6
OVERALL MEASURED																		
OVERALL CALCULATED	101.2	103.3	105.8	109.3	108.9	108.0	107.0	107.2	102.4	100.5								141.0
PNDB	114.7	116.7	119.3	122.5	122.3	121.3	119.9	120.1	115.1	112.9								

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 11.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.2	52.8	51.5	54.0	53.9	53.4	52.1	55.0	57.6	57.8							
VEHICLE RISS	125	55.6	57.5	58.9	62.2	62.6	60.8	60.5	59.9	59.2	58.4							
CONFIG 18	160	52.5	54.7	55.6	57.4	57.0	57.5	57.4	58.3	58.8	57.1							
LOC SCHENECTADY	200	50.6	53.3	54.5	56.8	58.4	58.4	59.3	59.2	60.4	58.4							
DATE 10/31/74	250	56.8	59.2	61.6	63.0	63.6	63.6	64.2	64.4	63.7	59.5							
RUN 9/23	315	57.2	58.1	59.3	60.9	60.0	60.2	60.1	60.0	59.3	56.5							
TAPE	400	55.4	56.6	57.5	59.1	59.2	59.4	58.8	58.4	58.2	55.0							
BAR 29.9 HG	500	54.0	55.0	56.2	58.2	58.6	59.3	59.2	58.5	57.5	53.0							
(10139. N/M2)	630	55.7	57.9	59.6	61.9	62.0	62.7	62.1	60.9	58.3	52.5							
TAMB 67. DEG F	800	57.0	59.0	60.2	62.0	62.7	63.3	62.7	61.7	58.6	52.5							
(293. DEG K)	1000	58.4	57.6	59.6	61.9	62.6	63.4	63.0	62.0	58.4	50.9							
TWET 64. DEG F	1250	56.2	58.7	61.8	64.1	65.7	66.5	65.8	64.1	58.7	51.0							
(291. DEG K)	1600	59.6	62.5	64.9	67.9	68.5	68.3	67.6	66.4	58.7	49.8							
HACT 14.25 GM/M3	2000	75.6	78.3	81.0	85.0	84.1	80.9	75.7	73.1	66.1	59.6							
(.01425 KG/M3)	2500	62.9	65.4	68.8	72.1	72.7	71.9	69.9	69.4	59.5	50.9							
NFA 8082. RPM	3150	60.1	63.3	66.8	69.6	70.9	70.3	68.8	68.7	59.5	50.1							
(846. RAD/SEC)	4000	61.8	65.5	71.1	72.9	71.6	72.7	72.9	71.0	61.4	51.7							
NFK 8020. RPM	5000	57.2	60.9	65.5	68.1	68.6	70.2	69.3	66.9	58.0	47.0							
(840. RAD/SEC)	6300	55.9	60.3	64.9	67.9	68.8	69.6	68.7	67.1	56.6	45.9							
NFD 8823. RPM	8000	54.3	58.4	64.0	65.0	65.5	66.7	66.4	63.6	53.8	42.1							
(924. RAD/SEC)	10000	51.0	55.5	59.9	62.9	64.0	65.7	64.7	62.8	50.8	38.1							
NO. OF BLADES 15	12500	46.3	52.1	56.6	59.5	60.5	62.6	61.1	59.0	46.9	31.7							
FAN TIP SPEED	16000	40.0	45.3	49.2	53.7	54.1	56.3	54.9	51.3	37.8	20.0							
706. FT/SEC	20000	33.7	39.2	44.1	48.1	48.7	50.7	49.4	45.2	29.7	7.0							
	25000	24.0	30.0	36.0	39.4	40.2	42.6	40.6	35.3	17.2								
	31500	10.5	16.7	22.3	26.5	27.7	28.1	25.0	17.7									
	40000			2.7	7.0	7.4	8.9											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		76.8	79.5	82.4	86.0	85.4	83.5	80.9	79.2	73.0	68.1							
PNDB		90.2	93.0	95.9	99.4	99.0	97.3	94.4	92.8	85.7	78.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 HR. 11.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 18
LOC SCHENECTADY
DATE 10/31/74
RUN 9/24
TAPE
BAR 29.9 HG (01039. N/M2)
TAMB 67. DEG F (293. DEG K)
TWET 64. DEG F (291. DEG K)
HACT 14.25 GM/M3 (.01425 KG/M3)
NFA 8080. RPM (846. RAD/SEC)
NFK 8016. RPM (840. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 705. FT/SEC

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	71.6	74.1	74.4	77.9	77.2	76.9	76.4	79.7	85.1	88.4								114.0
125	79.9	79.9	81.2	84.6	85.2	83.6	84.4	85.5	86.1	88.6								118.2
160	76.4	76.9	77.9	80.6	80.4	79.6	80.7	83.0	85.6	87.1								115.4
200	73.9	75.9	76.9	79.6	80.9	81.3	82.1	84.0	87.1	88.6								116.3
250	80.1	81.9	83.6	85.1	86.1	86.3	87.9	89.2	90.8	90.1								120.7
315	80.1	80.9	81.9	83.1	83.2	82.6	83.6	85.0	86.6	87.3								117.5
400	78.6	79.1	80.2	81.9	82.2	82.1	82.6	83.5	85.6	86.3								116.3
500	76.9	77.6	78.7	81.1	81.2	82.1	82.2	83.2	84.8	84.9								115.5
630	79.4	80.6	81.9	83.7	84.5	84.8	85.4	86.0	86.4	84.6								118.0
800	80.4	81.6	82.7	84.4	85.2	86.3	86.4	87.0	86.1	84.4								118.8
1000	80.1	81.1	82.2	84.1	85.5	86.3	87.6	87.7	85.8	83.4								119.0
1250	80.2	81.9	84.3	86.4	88.7	89.8	89.9	89.7	87.4	83.9								121.3
1600	83.2	84.9	87.3	89.7	91.0	91.8	91.6	92.0	87.4	83.4								123.5
2000	99.2	100.9	103.3	107.2	106.2	103.6	99.9	100.2	94.9	93.6								137.1
2500	86.4	88.9	91.3	94.0	95.5	95.3	94.6	95.7	89.1	85.1								127.2
3150	84.9	87.1	90.1	92.2	94.5	94.7	94.3	95.9	89.1	85.0								126.5
4000	86.9	90.0	94.8	96.2	94.9	97.4	98.4	98.6	92.5	87.4								129.5
5000	82.6	85.6	89.2	91.6	92.8	94.8	95.3	94.5	88.5	83.9								126.1
6300	82.6	86.0	90.1	91.9	92.8	95.0	96.1	96.2	89.9	84.9								126.8
8000	82.2	85.0	89.0	90.8	91.1	93.2	94.0	94.3	87.8	83.4								125.2
10000	80.1	83.7	87.2	90.0	90.8	93.9	94.9	94.6	88.2	83.3								125.5
12500	78.5	82.2	86.1	88.8	90.4	93.4	93.4	94.1	88.0	83.1								124.9
16000	76.2	79.6	82.9	86.6	88.1	90.5	91.8	92.0	85.4	80.4								122.9
20000	75.4	78.9	82.6	86.2	87.1	90.8	91.9	92.5	85.5	80.5								123.4
25000	74.5	76.8	81.1	84.6	85.2	89.7	91.3	92.4	85.0	79.8								123.3
31500	71.6	74.3	77.9	81.3	82.8	85.9	87.5	88.4	81.8	76.6								120.6
40000	69.1	71.8	74.3	77.9	78.1	80.9	79.3	81.3	76.5	70.2								116.0
50000	69.3	73.1	74.4	78.3	78.9	79.9	74.3	76.4	72.5	68.4								116.0
63000	72.1	76.6	78.0	82.7	80.4	81.9	74.1	76.3	71.1	70.4								121.4
80000	77.2	82.0	83.6	88.6	86.1	85.6	79.4	80.9	74.7	73.8								130.6
OVERALL MEASURED																		
OVERALL CALCULATED	100.6	102.5	105.3	108.6	108.2	107.5	106.8	107.3	102.4	100.5								140.8
PNDB	114.2	116.1	118.7	121.9	121.6	120.7	119.8	120.1	115.3	113.0								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 HR. 11.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																
	63																
SIDELINE 200. FT.	80																
(60.96 M)	100	48.9	52.1	52.7	56.3	55.4	54.7	53.3	55.3	58.5	58.3						
VEHICLE R-55	125	57.1	57.7	59.4	63.0	63.3	61.3	61.3	60.9	59.4	58.4						
CONFIG 18	160	53.5	54.7	56.1	58.9	58.5	57.2	57.4	58.3	58.8	56.6						
LOC SCHENECTADY	200	50.9	53.6	55.0	57.8	58.9	58.9	58.8	59.2	60.1	57.9						
DATE 10/31/74	250	57.0	59.5	61.6	63.2	64.1	63.8	64.5	64.4	63.7	59.2						
RUN 9/24	315	57.0	58.4	59.8	61.2	61.0	60.0	60.1	60.0	59.3	56.3						
TAPE	400	55.4	56.6	58.0	59.8	59.9	59.4	59.0	58.4	58.2	55.0						
BAR 29.9 HG	500	53.5	55.0	56.4	59.0	58.9	59.3	58.4	58.0	57.3	53.3						
(101339. N/M2)	630	55.9	57.9	59.6	61.4	62.0	61.9	61.6	60.6	58.6	52.8						
TAMB 67. DEG F	800	56.8	58.7	60.2	62.0	62.7	63.3	62.4	61.4	58.1	52.2						
(293. DEG K)	1000	56.4	58.1	59.6	61.7	62.8	63.1	63.5	62.0	57.7	50.9						
TWET 64. DEG F	1250	56.2	58.7	61.5	63.8	65.9	66.3	65.6	63.8	58.9	51.0						
(291. DEG K)	1600	59.1	61.5	64.4	66.9	68.0	68.3	67.1	65.9	58.7	50.1						
HACT 14.25 GM/M3	2000	74.9	77.3	80.2	84.3	83.1	79.9	75.2	73.9	65.8	59.9						
(.01425 KG/M3)	2500	61.9	65.1	68.1	70.9	72.2	71.4	69.7	69.1	59.8	50.9						
NFA 8080. RPM	3150	60.1	63.0	66.5	68.8	70.9	70.5	69.0	68.9	59.3	50.1						
(846. RAD/SEC)	4000	61.6	65.5	70.8	72.4	70.9	72.7	72.7	71.0	61.9	51.4						
NFK 8018. RPM	5000	57.0	60.9	65.0	67.6	68.6	69.9	69.3	66.6	57.5	47.2						
(840. RAD/SEC)	6300	56.2	60.6	65.2	67.2	67.8	69.4	69.2	67.3	57.8	46.4						
NFD 8823. RPM	8000	54.5	58.4	63.0	65.0	65.0	66.4	65.9	63.9	53.6	42.1						
(924. RAD/SEC)	10000	50.8	55.5	59.7	62.7	63.2	65.5	65.0	62.0	51.3	38.1						
NO. OF BLADES 15	12500	46.6	51.6	56.4	59.3	60.5	62.6	60.8	58.5	47.1	32.2						
FAN TIP SPEED	16000	40.2	45.3	49.4	53.4	54.6	55.8	54.9	51.3	38.1	20.0						
705. FT/SEC	20000	33.9	39.5	44.3	48.3	48.7	51.0	49.4	45.2	29.7	7.7						
	25000	25.3	30.2	36.0	39.9	40.0	42.6	40.6	35.5	17.2							
	31500	11.0	17.2	22.8	26.8	27.5	28.1	25.0	17.7								
	40000			4.2	8.5	7.7	7.2										
	50000																
	63000																
	80000																
OVERALL CALCULATED		76.1	78.7	81.8	85.3	84.6	82.9	80.7	79.4	73.0	68.1						
	PNDB	89.7	92.4	95.4	98.7	98.3	98.7	94.2	92.8	85.6	78.9						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 11.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 18
LOC SCHENECTADY
DATE 10/31/74
RUN 9/26
TAPE
BAR 29.9 MG (1013. N/M2)
TAMB 67. DEG F (293. DEG K)
TET 64. DEG F (291. DEG K)
HACT 14.25 GM/M3 (.01425 KG/M3)
NFA 5666. RPM (593. RAD/SEC)
NFK 5623. RPM (589. RAD/SEC)
NF3 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 495. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.4	75.2	72.0	73.3	71.9	70.6	65.2	71.2	74.5	77.4								106.6
125	70.7	71.7	70.5	68.0	69.4	69.9	69.5	71.5	72.3	75.4								104.8
160	65.9	67.7	66.7	67.3	67.1	67.9	70.0	71.2	72.6	75.4								103.5
200	63.7	67.4	67.2	68.0	69.9	71.1	72.7	73.4	75.5	77.4								105.5
250	66.9	68.9	69.2	69.8	70.6	71.6	72.5	73.4	74.2	75.6								105.5
315	70.7	72.1	72.2	72.8	72.4	72.8	73.2	73.7	74.8	74.9								108.8
400	69.7	70.4	71.2	71.5	72.7	73.1	73.2	73.9	74.3	74.4								108.4
500	69.2	69.1	69.7	71.6	72.2	73.4	74.0	74.4	75.0	73.9								108.4
630	70.9	72.7	74.0	75.1	76.2	77.4	77.8	78.2	77.5	75.7								109.5
800	72.2	73.6	74.5	75.3	76.7	77.6	79.0	79.4	78.5	74.9								110.7
1000	73.7	74.1	75.0	76.8	78.4	79.8	81.5	81.9	81.3	74.9								112.7
1250	80.0	83.6	86.1	87.6	89.2	90.1	89.5	88.7	87.5	80.7								121.5
1600	82.0	85.6	87.8	89.4	91.0	91.1	90.7	89.0	88.6	81.4								122.9
2000	75.5	77.6	79.6	82.1	83.7	85.1	85.7	85.7	84.8	78.6								117.1
2500	76.2	78.4	81.4	83.4	86.0	88.8	88.4	88.7	86.6	79.1								119.2
3150	76.7	78.6	81.1	84.7	86.7	87.7	89.4	89.4	88.3	81.1								120.2
4000	74.4	77.7	80.3	83.1	84.6	85.9	87.5	88.8	84.2	78.5								118.5
5000	73.6	76.6	79.3	82.8	84.1	85.1	86.7	87.8	83.2	76.9								117.7
6300	71.1	73.3	77.6	80.1	82.9	83.8	85.7	86.7	82.1	76.7								116.3
8000	68.2	70.5	75.0	77.7	79.6	81.2	84.6	84.5	81.2	75.5								114.5
10000	67.7	70.9	74.3	77.2	78.6	81.4	83.3	84.5	80.9	75.1								114.2
12500	66.0	68.4	73.2	77.2	78.1	80.9	83.0	84.1	79.9	73.9								113.9
16000	63.3	65.4	70.4	73.5	75.4	78.8	80.6	82.5	77.8	72.0								112.0
20000	61.7	63.9	69.6	72.1	73.8	77.3	79.5	82.2	76.9	71.5								111.6
25000	60.8	62.1	72.4	69.8	70.7	75.2	76.4	79.4	73.7	67.6								109.7
31500	59.4	60.6	65.2	66.3	68.3	72.7	74.1	76.2	71.3	65.2								107.6
40000	58.4	59.8	75.6	61.5	64.1	68.7	67.1	69.5	65.9	60.3								106.9
50000	59.9	62.6	76.7	61.4	62.4	68.4	62.9	64.4	62.4	59.2								108.7
63000	60.9	63.8	72.1	62.9	63.4	70.1	62.4	62.8	61.5	59.7								109.1
80000	68.0	65.2	69.4	64.3	64.9	72.1	66.8	65.6	63.7	61.6								114.1
OVERALL MEASURED																		
OVERALL CALCULATED	87.7	90.6	93.1	94.8	96.5	97.5	98.3	98.5	96.4	90.9								130.0
PNDB	99.9	102.8	105.0	107.0	108.8	109.8	111.1	111.4	109.8	104.0								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 NO. 11.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-SS
CONFIG 1B
LOC SCHENECTADY
DATE 10/31/74
RUN 9/26
TAPE
BAR 29.9 HG (1039. N/M2)
TAMB 67. DEG F (293. DEG K)
TWET 64. DEG F (291. DEG K)
HACT 14.25 GM/M3 (.01425 KG/M3)
NFA 5666. RPM (593. RAD/SEC)
NFK 5623. RPM (589. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 495. FT/SEC

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	46.7	53.1	50.3	51.7	50.2	48.4	42.2	46.8	48.0	47.3							
125	47.9	49.5	48.7	48.4	47.6	47.6	46.4	46.9	45.6	45.2							
160	43.0	45.4	44.9	45.6	45.3	45.5	46.8	46.6	45.9	44.9							
200	40.7	45.1	45.3	46.2	47.9	48.7	49.4	48.7	48.5	46.7							
250	43.8	48.5	47.2	47.9	48.6	49.1	49.1	48.6	47.1	44.8							
315	47.5	49.7	50.1	50.8	50.3	50.2	49.7	48.7	47.5	43.8							
400	46.4	47.8	49.1	49.5	50.4	50.4	49.6	48.8	46.9	43.1							
500	45.8	46.5	47.5	49.4	49.9	50.5	50.3	49.2	47.4	42.3							
630	47.5	49.9	51.6	52.8	53.8	54.4	53.9	52.8	49.8	43.8							
800	48.6	50.7	52.0	53.0	54.2	54.5	55.0	53.9	50.6	42.8							
1000	49.9	51.1	52.4	54.3	55.8	56.7	57.3	56.2	53.1	42.4							
1250	56.0	60.5	63.3	65.0	66.4	66.8	65.2	62.8	59.1	47.8							
1600	57.9	62.3	64.9	66.6	68.0	67.6	66.2	62.8	59.8	48.1							
2000	51.2	54.1	56.5	59.2	60.6	61.4	61.0	59.3	55.8	44.9							
2500	51.7	54.6	54.1	60.3	62.7	62.9	63.5	62.1	57.2	44.9							
3150	51.9	54.5	57.6	61.2	63.1	63.6	64.1	62.4	58.4	46.2							
4000	49.1	53.3	56.4	59.3	60.6	61.3	61.8	61.2	53.6	42.5							
5000	48.0	51.9	55.1	58.7	59.8	60.2	60.7	59.8	52.1	40.3							
6300	44.7	47.8	52.7	55.4	57.0	58.1	58.8	57.8	49.8	38.2							
8000	40.6	43.9	49.0	51.9	53.5	54.4	56.4	54.1	47.0	34.2							
10000	38.3	42.8	46.7	49.9	51.0	53.0	53.3	52.0	44.0	29.9							
12500	34.1	37.9	43.4	47.7	48.3	50.1	50.4	48.5	39.1	23.0							
16000	27.3	31.0	37.0	40.4	41.8	44.1	43.7	41.8	30.5	11.8							
20000	20.2	24.5	31.4	34.3	35.5	37.5	37.0	34.9	21.1								
25000	11.6	15.5	27.3	25.1	25.4	28.1	25.7	22.5	5.9								
31500		3.4	10.1	11.7	13.0	14.8	11.8	5.4									
40000			5.5														
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.4	67.8	69.6	71.6	73.1	73.3	72.9	71.1	66.8	57.7							
PNDB	75.3	79.8	81.7	83.7	85.2	85.6	85.9	84.3	79.8	69.1							

PAGE 1 FULL SCALE DATA SECTION PROGRAM

MODEL SCALE SUBSONIC LEVELS (50%, 100%, & 70 PERCENT REL. NUM. FAN)

ANGLES FROM INLET TO EXHAUST (DEG. RADIANS)

	FREQ.	30. (1.52)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.05)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.2	70.3	75.2	78.1	74.5	73.5	71.4	68.7	70.7	74.4	76.6							167.5
VEHICLE BOSS	125	70.5	69.6	69.9	68.1	71.0	69.5	69.9	71.9	72.7	73.4	74.1							164.9
CONFIG 2	160	70.7	67.3	66.9	66.9	69.3	69.5	70.2	71.4	73.2	75.1	74.5							164.6
LOC SCHENECTADY	200	71.5	67.3	67.2	96.4	71.5	72.0	72.2	74.4	75.2	76.9	78.1							166.7
DATE 11/2/74	250	73.0	69.8	70.7	71.1	72.5	73.9	74.2	74.6	74.7	75.6	76.9							167.2
RUN 1674	315	70.8	71.1	71.4	72.1	72.8	73.5	74.2	74.7	74.2	75.6	76.4							167.3
TAPE	400	71.0	71.3	71.4	71.9	73.5	73.5	73.7	74.7	74.7	74.5	74.6							167.2
BAR 30.0 HG	500	71.0	70.3	70.4	71.4	72.8	72.8	72.9	73.9	73.7	74.4	74.1							166.5
(101.72. N/M2)	630	73.1	72.3	72.7	73.7	74.6	75.3	75.0	76.0	77.0	77.1	75.1							169.1
TAMB 50. DEG F	800	77.8	73.6	74.4	74.9	75.6	76.6	77.9	79.2	79.4	77.4	74.6							110.8
(283. DEG K)	1000	73.8	73.1	73.7	74.7	75.1	77.1	78.7	80.2	80.2	77.4	74.4							110.8
T-ET 45. DEG F	1250	77.9	78.9	78.2	81.0	81.1	83.3	84.7	85.7	86.4	84.2	79.4							110.7
(280. DEG K)	1600	78.1	78.9	79.4	80.5	81.9	83.4	84.6	85.9	85.9	82.7	77.8							110.7
HACT 6.37 GM/M3	2000	79.4	78.4	79.4	81.9	83.2	84.6	85.5	85.4	84.2	80.9	76.9							110.8
(.00837 KG/M3)	2500	77.9	79.7	80.9	83.9	85.9	87.9	88.4	89.6	89.7	86.5	81.8							120.4
NFA 5548. RPM	3150	76.6	78.4	79.9	81.1	86.4	87.9	88.3	89.6	90.7	85.2	81.1							120.3
(581. RAD/SEC)	4000	76.3	77.6	80.3	83.6	86.4	88.8	90.8	91.5	89.8	86.9	82.8							121.6
NFK 5597. RPM	5000	73.5	76.3	77.5	82.5	85.6	87.8	87.7	88.7	87.8	82.3	78.5							119.1
(586. RAD/SEC)	6300	72.8	74.6	76.9	81.9	85.0	85.7	86.9	86.0	87.3	81.5	78.1							118.4
NFD 8823. RPM	8000	70.9	72.5	75.8	81.6	83.9	84.8	86.2	87.8	86.7	80.7	78.1							117.8
(924. RAD/SEC)	10000	71.9	71.4	73.2	92.9	84.4	83.5	85.5	86.5	86.0	80.5	78.3							117.4
NO. OF BLADES 15	12500	73.4	70.8	72.1	85.9	85.9	82.9	84.1	85.8	85.2	79.4	80.3							117.6
FAN TIP SPEED	16000	70.9	67.6	68.9	84.4	87.8	80.3	82.2	83.9	82.5	78.7	80.6							120.0
484. FT/SEC	20000	71.3	65.8	67.9	90.3	89.6	79.2	81.4	82.7	82.2	79.8	81.6							120.0
	25000	72.6	66.2	66.5	91.3	89.5	78.1	78.6	80.1	79.9	78.9	82.4							120.7
	31500	72.9	65.3	66.0	98.8	90.8	75.9	77.6	79.1	78.8	81.3	84.4							121.1
	40000	73.8	65.7	68.0	87.3	89.9	74.1	76.2	76.8	76.3	82.2	84.6							121.5
	50000	77.2	67.1	67.5	83.6	88.0	71.7	73.7	74.4	72.6	83.3	85.5							121.9
	63000	79.5	68.6	69.5	81.8	87.3	71.1	71.7	71.0	71.0	80.7	85.3							123.4
	80000	83.1	70.0	72.7	77.7	84.1	72.1	72.3	72.0	71.1	77.7	82.3							129.4
OVERALL MEASURED																			
OVERALL CALCULATED		98.4	88.7	89.9	98.3	99.8	96.9	98.1	99.1	98.8	99.5	95.1							133.3
	PNLT	100.7	101.6	103.0	106.1	108.9	110.1	111.3	112.5	112.0	107.6	104.4							

PROG. DATE = MONTH 11 DAY 22 NO. 10.9

MODEL SOUND PRESSURE LEVELS (SPL, DB, RE 20 MICRONT BAR, MOD, DAY)

ANGLES FROM INLET IN DEGREES (ARID Variant)

	FREQ.	50. (1.02)	60. (1.17)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 250. FT.	80																	
(60.96 M)	100	47.2	48.1	53.4	54.6	52.9	51.5	48.7	44.9	45.3	46.7	45.2						
VEHICLE R-65	125	47.4	47.9	46.1	46.5	47.3	48.4	46.2	47.1	47.2	45.5	44.5						
CONFIG 2	160	47.5	44.9	45.0	45.2	47.2	46.3	47.3	47.4	47.8	47.2	44.8						
LCC SCHEDULE Y	200	44.2	44.6	45.2	46.6	49.6	49.7	49.2	50.3	49.5	46.7	46.0						
DATE 11/2/74	250	49.6	47.2	48.6	49.2	50.1	50.7	51.1	50.2	48.8	47.3	44.5						
RUN 10/4	315	46.5	48.4	49.2	50.2	50.7	51.1	51.0	50.4	48.2	47.2	43.8						
TAPE	400	47.4	48.6	49.2	49.6	51.4	51.0	50.4	50.3	48.8	48.6	41.8						
BAR 30.0 IN	500	47.3	47.5	48.1	49.3	50.6	50.2	49.6	49.4	47.4	45.8	41.0						
(101.72. K/M2)	630	49.2	49.4	50.2	51.4	52.2	52.0	52.5	52.3	51.5	49.1	41.7						
TAMB 58. DEG F	800	53.9	50.5	51.9	52.6	53.1	53.7	54.3	54.4	52.9	49.1	40.8						
(283. DEG K)	1000	49.7	49.9	51.0	52.2	52.5	54.1	54.9	55.2	53.4	47.9	40.2						
TWET 45. DEG F	1250	53.6	55.5	55.3	56.4	56.4	60.2	60.8	60.5	59.5	54.4	44.8						
(280. DEG K)	1600	53.6	55.3	56.4	57.7	59.0	60.1	60.6	60.6	58.7	52.5	42.8						
HACT 6.37 GM/M3	2000	54.7	54.7	56.2	58.1	60.1	61.1	61.4	59.8	56.7	50.4	41.3						
(.00637 KG/M3)	2500	53.0	55.7	57.5	59.7	62.7	64.2	64.0	63.8	61.9	54.1	45.5						
NFA 5548. RPM	3150	51.4	54.2	56.2	58.7	62.9	63.9	63.4	62.5	59.8	54.1							
(581. RAD/SEC)	4000	50.6	52.9	56.2	59.7	62.5	64.2	64.7	64.8	60.8	52.0	41.8						
NFK 5597. RPM	5000	47.5	51.4	53.2	58.5	61.4	62.4	62.1	61.7	58.6	49.8	39.5						
(586. RAD/SEC)	6300	45.9	48.9	51.9	57.1	60.1	60.4	60.6	60.1	57.0	47.4	37.0						
NFB 8823. RPM	8000	42.8	45.7	48.8	55.8	57.9	58.1	58.6	57.6	54.7	44.4	33.9						
(924. RAD/SEC)	10000	42.0	42.0	45.5	55.6	57.0	55.4	56.2	55.2	51.7	41.2	29.6						
NO. OF BLADES 15	12500	40.8	39.2	42.1	54.4	56.1	52.4	52.3	51.7	47.5	39.6	25.0						
FAN TIP SPEED	16000	34.0	32.2	35.3	53.2	54.4	48.1	48.2	45.6	39.2	27.9	14.6						
484. FT/SEC	20000	28.8	25.9	29.4	52.4	51.5	40.0	40.0	37.7	31.5	19.1	1.2						
	25000	22.0	18.9	21.1	46.6	44.5	29.7	29.4	26.3	18.6	9.5							
	31500	18.5	7.3	10.4	34.9	35.8	18.6	17.8	12.4	2.0								
	40000				18.0	20.0	1.0											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.5	64.5	66.2	69.5	71.4	72.2	72.5	72.0	69.7	63.0	56.1						
	PNDB	75.5	77.4	79.2	82.4	84.9	85.9	86.2	86.0	83.7	76.2	67.5						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

		5a.	6a.	7a.	8a.	9a.	10a.	11a.	12a.	13a.	14a.	15a.	4.	5.	6.	8.	C.	9.	3.	Pol				
	FREQ.	11.02	11.12	11.06	11.35	11.71	11.89	12.06	12.48	12.87	12.63	12.74	0.	0.	0.	0.	0.	0.	0.					
	50																							
	63																							
RADIAL 17. FT.	80																							
S. MI	100	73.2	74.5	73.7	72.9	73.3	73.5	72.4	73.4	75.1	74.2	61.3								164.8				
VEHICLE 6-55	125	72.2	72.3	71.4	72.1	73.3	72.5	73.0	75.1	74.6	74.4	61.1								169.8				
CONFIG 2	150	72.5	70.8	70.2	72.6	71.3	72.5	73.7	76.4	77.2	75.7	60.8								168.9				
LOC SCHENECTADY	200	72.2	72.3	72.7	71.9	73.5	75.3	75.7	74.6	73.3	81.7	62.6								114.5				
DATE 11/2/74	250	74.0	72.5	73.4	75.4	75.6	75.0	77.4	77.4	79.1	78.9	61.3								118.8				
RUN 10/5	315	73.2	74.6	74.9	76.4	76.9	77.3	77.4	78.4	78.4	80.2	60.1								111.1				
TAPE	400	73.8	73.8	73.9	75.2	75.5	76.9	76.7	78.4	77.8	79.5	78.8								114.3				
BAR 30.0 IN	500	73.9	72.3	73.2	74.7	75.1	75.3	76.2	77.9	78.1	78.2	77.8								109.7				
(0172. M/S2)	630	74.8	74.6	74.9	76.7	76.5	76.1	76.7	80.8	80.8	80.5	78.3								112.8				
TAPB 50. DEG F	800	73.6	75.8	76.7	77.2	77.1	78.6	80.2	82.6	82.6	80.2	78.3								113.3				
(283. DEG K)	1000	75.3	75.3	76.2	77.2	77.3	79.6	81.7	82.9	82.3	79.7	77.1								114.3				
TACT 45. DEG F	1250	77.1	77.9	78.4	79.0	80.9	83.3	84.7	85.9	85.8	81.7	78.3								110.3				
(280. DEG K)	1600	80.1	80.1	80.6	80.5	82.9	86.4	86.4	83.9	84.1	80.5	63.1								124.3				
HACT 6.37 GM/M3	2000	81.3	81.4	82.4	84.3	85.9	88.1	88.4	89.6	87.4	82.7	79.3								11..8				
(.00837 KG/M3)	2500	79.9	82.2	82.9	86.1	87.4	89.4	90.1	90.5	89.5	85.3	80.8								121.5				
NFA 6360. RPM	3150	83.6	82.8	84.6	87.5	88.7	92.4	94.8	94.8	94.3	89.3	84.8								123.2				
(666. RAD/SEC)	4000	79.8	80.9	83.5	87.1	89.9	91.3	92.9	93.2	91.4	85.5	81.5								123.4				
NFK 6410. RPM	5000	78.2	82.1	83.5	87.5	89.3	93.0	92.2	92.6	91.2	85.9	80.9								123.8				
(672. RAD/SEC)	6300	76.5	79.1	81.2	85.2	87.5	89.7	90.7	91.7	89.7	85.1	80.5								121.8				
NFB 6823. RPM	8000	74.4	77.3	79.7	85.1	86.6	88.4	90.0	90.7	88.6	84.5	79.6								122.5				
(924. RAD/SEC)	10000	73.7	75.4	78.2	83.7	85.9	87.2	88.0	88.7	87.0	83.6	79.8								120.8				
NO. OF BLADES 15	12500	73.9	74.8	77.3	82.5	85.4	86.4	87.8	86.8	85.7	83.5	77.8								122.2				
FAN TIP SPEED	16000	70.9	72.7	73.9	80.9	81.6	84.3	85.4	87.1	84.7	80.3	76.5								119.2				
555. FT/SEC	20000	71.8	69.6	73.1	80.6	80.6	82.5	84.9	87.4	85.2	80.1	74.5								122.1				
	25000	72.9	68.9	71.8	82.3	79.7	80.8	83.3	85.1	83.1	80.5	72.8								121.2				
	31500	72.6	68.3	70.5	82.9	80.0	80.2	81.8	83.6	82.2	84.5	70.8								121.8				
	40000	72.8	67.4	69.3	83.1	78.4	78.1	80.5	82.8	80.2	82.2	67.8								122.4				
	50000	75.9	67.9	68.5	83.9	75.3	75.2	77.5	80.9	78.5	82.4	67.7								123.2				
	63000	78.2	68.4	69.3	83.5	78.1	72.1	73.9	80.5	78.8	78.8	68.5								127.3				
	80000	83.1	78.8	72.7	87.9	71.1	72.1	72.3	82.8	81.8	78.8	78.4								127.1				
OVERALL MEASURED																								
OVERALL CALCULATED		93.4	93.3	94.2	102.5	98.7	100.8	101.7	103.8	101.9	98.8	94.2								130.6				
	PNCB	105.2	105.7	107.8	108.9	112.8	113.8	115.3	116.8	115.1	111.1	107.4												

MODEL SCALE PRESSURE LEVELS (CP), TAPS, AT 70 PERCENT SEMI-SPAN, [AT]

ANGLES FROM INLET TO LEADING EDGE (HALF ANGLES)

FREQ.	30. (15.0)	60. (15.0)	90. (15.0)	120. (15.0)	150. (15.0)	180. (15.0)	210. (15.0)	240. (15.0)	270. (15.0)	300. (15.0)	330. (15.0)	0. (15.0)
50												
63												
80												
100	50.2	52.3	51.0	51.3	51.6	51.5	43.7	49.9	49.[illegible]	50.5	49.9	
125	49.1	53.3	49.4	50.5	51.5	50.4	50.2	51.3	51.1	50.5	49.5	
160	49.3	49.4	48.3	50.9	47.5	50.3	50.[illegible]	52.7	52.3	51.7	49.0	
200	48.2	47.8	49.7	50.1	51.6	54.0	52.7	54.5	53.[illegible]	53.5	50.5	
250	50.6	53.[illegible]	51.3	51.5	53.1	53.7	54.4	54.4	53.3	51.8	49.0	
315	49.7	51.7	52.7	54.4	54.0	54.[illegible]	54.3	54.3	52.[illegible]	51.7	47.5	
400	49.2	51.1	51.7	53.1	53.7	54.3	53.4	54.0	51.7	50.3	46.0	
500	49.3	49.[illegible]	50.8	52.5	52.8	52.7	52.0	53.4	51.[illegible]	49.4	44.7	
630	51.6	51.6	52.5	54.4	54.2	55.3	55.2	56.[illegible]	54.[illegible]	51.4	44.9	
800	54.9	52.7	54.1	54.9	54.6	55.7	54.6	57.0	54.[illegible]	50.9	44.5	
1000	51.2	52.1	53.5	54.7	54.7	56.0	57.9	57.9	55.4	54.2	42.9	
1250	53.8	54.5	55.6	54.4	54.2	60.2	60.4	60.7	58.[illegible]	51.9	43.4	
1600	64.6	64.6	65.4	66.7	65.0	67.1	66.3	64.5	66.[illegible]	57.9	46.8	
2000	57.2	57.7	59.2	61.3	62.1	64.0	64.1	63.[illegible]	59.[illegible]	52.3	43.7	
2500	55.0	58.2	59.5	62.9	64.2	[illegible]7	65.6	65.8	61.[illegible]	54.2	44.7	
3150	55.4	58.7	61.8	64.2	67.2	68.4	70.8	68.6	66.1	57.9	47.8	
4000	53.1	56.2	59.5	63.2	66.9	66.9	66.7	66.5	62.8	54.2	43.3	
5000	52.2	57.1	59.2	63.5	65.7	66.4	66.6	66.6	62.6	53.2	42.8	
6300	49.7	53.4	56.1	60.4	62.6	64.4	64.3	63.8	59.4	51.8	39.5	
8000	46.3	50.[illegible]	53.6	59.3	58.7	61.9	62.4	61.3	56.4	48.2	39.3	
10000	43.7	46.9	50.5	56.3	58.5	60.1	59.7	59.4	54.4	48.2	38.3	
12500	41.3	43.2	47.4	54.9	55.6	55.9	56.8	55.0	49.[illegible]	41.7	22.4	
16000	34.8	38.8	48.3	55.7	48.4	56.1	49.5	48.2	4[illegible]	34.2	8.3	
20000	29.3	20.6	34.6	52.1	42.5	43.2	43.5	42.4	34.4	27.4		
25000	22.3	21.6	25.6	48.1	36.7	34.2	34.2	31.2	21.7	12.1		
31500	10.2	10.3	14.0	38.3	29.9	23.4	21.3	14.9	5.4			
40000				23.7	8.5	5.6	3.0					
50000				5.8								
63000												
80000												
OVERALL CALCULATED	67.8	68.9	73.4	73.3	74.4	76.0	76.0	75.8	73.0	66.0	59.0	
PNDP	80.5	81.7	83.3	86.4	88.4	89.7	89.4	89.7	87.8	79.0	70.5	

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA SECTION, POWER ON

FAN, DATE = WED, 11 MAY 22 PM, 10.9

OVERALL SOUND PRESSURE LEVELS (RE, 10, PA, 20 PERCENT BEL, BOTH, FAN)

ANGLES (RE INLET) (DEGREES FROM INLET)

		5a.	6a.	7a.	8a.	9a.	10a.	11a.	12a.	13a.	14a.	15a.	b.	b.	b.	b.	b.	b.	PWL
FREQ.		(1.02)	(1.19)	(1.36)	(1.53)	(1.70)	(1.88)	(2.04)	(2.21)	(2.38)	(2.55)	(2.72)	110.	110.	110.	110.	110.	110.	
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. KJ	100	70.5	71.8	71.7	72.4	72.1	73.0	73.2	75.1	77.0	81.9	85.1							110.4
VEHICLE BOSS	125	74.0	74.2	73.4	74.1	73.5	75.0	77.0	78.4	79.0	82.2	86.1							111.0
CONFIG 2	160	74.0	74.0	73.4	72.4	74.5	75.5	77.2	79.4	81.1	84.2	85.0							112.5
LOC SCHENECTADY	200	73.7	72.6	73.2	74.6	76.3	77.3	78.7	81.4	81.0	84.5	86.0							113.0
DATE 11/2/74	250	75.7	75.8	77.2	77.0	78.9	79.5	80.7	81.9	83.1	84.9	88.1							114.5
RUN 13/0	315	76.6	77.6	78.2	77.9	79.3	80.0	80.4	82.1	82.1	83.6	86.0							114.5
TAPE	400	75.8	77.1	77.2	77.4	78.3	79.5	79.4	81.1	81.3	82.9	83.1							113.5
BAR 30.3 IN	500	75.6	76.1	75.9	77.4	77.9	78.3	78.4	81.1	81.3	82.4	81.0							113.0
(811.72. K/M2)	630	76.8	77.8	78.2	78.4	79.0	81.1	81.6	83.1	83.3	83.7	81.0							114.7
TAMB 56. DEG F	800	69.1	70.5	70.2	69.4	69.1	69.0	69.0	69.0	69.4	69.4	69.0							115.0
(293. DEG K)	1000	73.1	74.1	73.9	73.7	80.1	82.3	83.4	84.6	84.0	82.4	80.1							115.0
TMET 45. DEG F	1250	78.9	79.8	80.4	81.2	83.1	85.0	87.2	87.0	87.3	83.5	80.0							118.3
(280. DEG K)	1600	84.4	85.8	84.7	87.5	88.6	89.6	90.0	92.0	90.4	85.0	82.3							122.7
MACH 0.37 GM/M3	2000	86.6	87.2	85.7	90.0	91.4	92.6	93.6	94.1	91.6	86.5	83.3							124.9
(.00937 KG/M3)	2500	82.6	84.2	85.4	88.6	90.4	92.1	92.1	92.8	90.6	86.5	83.1							123.7
NFA 7139. RPM	3150	82.6	84.7	86.6	90.3	92.4	94.4	94.3	95.9	94.8	91.3	88.0							126.2
(747. RAD/SEC)	4000	82.8	85.4	87.8	91.8	94.1	95.8	96.5	97.8	95.5	94.2	88.8							127.8
NFK 7202. RPM	5000	81.2	84.6	87.8	91.5	93.4	95.3	95.4	95.6	93.2	89.2	83.7							126.5
(754. RAD/SEC)	6300	79.6	82.8	85.2	89.3	91.7	93.7	93.9	95.2	91.5	87.9	83.3							125.3
NFC 8823. RPM	8000	77.9	81.5	83.5	88.4	90.5	92.4	93.7	94.4	91.8	87.8	82.3							124.5
(924. RAD/SEC)	10000	76.7	79.8	83.2	86.4	90.2	92.2	93.5	94.7	91.8	87.6	82.5							124.6
NO. OF BLADES 15	12500	75.9	77.5	82.1	84.5	89.1	91.6	92.3	93.3	89.7	86.5	81.8							123.8
FAN TIP SPEED	16000	72.6	75.2	78.7	80.1	86.8	88.8	89.7	91.1	87.5	84.8	78.9							122.1
623. FT/SEC	20000	73.3	73.3	77.6	81.8	84.9	87.0	88.8	91.4	87.8	84.8	77.5							122.9
	25000	74.1	72.4	76.3	83.3	83.5	85.3	87.6	88.8	86.3	84.5	76.9							123.2
	31500	77.1	71.8	75.3	82.7	82.8	84.7	86.1	87.8	85.7	84.4	74.1							123.8
	40000	73.8	76.4	73.3	84.3	80.4	82.8	84.2	85.5	83.8	82.5	69.6							124.5
	50000	74.2	68.9	71.3	85.9	78.8	79.5	81.7	83.4	82.5	80.9	68.9							127.4
	63000	79.5	68.4	78.8	83.8	73.6	74.9	75.8	81.2	79.7	83.5	69.3							127.2
	80000	83.1	78.3	72.7	87.5	71.1	73.1	72.8	82.2	81.8	79.3	70.8							127.5
OVERALL MEASURED																			
OVERALL CALCULATED		94.2	95.1	96.5	104.8	102.2	104.8	104.7	105.7	103.4	101.5	97.5							130.1
	PWL	106.5	108.2	109.9	113.4	115.3	117.8	117.6	118.6	116.8	112.9	109.8							

FULL SCALE DATA PERFORMANCE PROGRAM

		ANGLES FROM INLET (DEGREES FROM AXIAL)											
		5°.	6°.	7°.	8°.	9°.	10°.	11°.	12°.	13°.	14°.	15°.	0. 0. 0. 0. 0. 0.
	RADIUS RATIO	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	110. 110. 110. 110. 110. 110. 1
	59												
	63												
SIDELINE 200. FT.	65												
(60.96 M)	100	47.5	48.5	49.0	50.0	50.8	51.6	52.5	51.6	52.4	54.3	53.7	
VEHICLE RUN5	125	56.9	57.8	58.6	58.7	58.9	58.9	58.2	54.5	54.6	54.4	52.5	
CONFIG 2	150	55.8	51.9	51.5	57.7	53.8	53.6	54.3	54.4	55.5	54.2	53.7	
LCC SCHEDULED	200	50.4	50.1	51.2	52.4	54.4	54.8	55.7	57.3	54.1	55.9	54.7	
DATE 11/2/74	250	52.3	53.2	54.1	54.5	56.5	57.2	57.6	57.7	57.3	54.6	53.7	
RUN 16/6	315	52.5	54.9	56.0	56.9	57.2	58.3	57.3	57.6	56.1	55.5	52.2	
TAPE	400	52.2	54.3	54.9	55.3	56.2	57.6	56.2	56.7	55.2	54.3	52.2	
BAR 31.3 IN	500	51.3	53.2	53.6	55.3	55.5	55.9	56.1	56.6	56.1	51.6	49.7	
(1172. M/HG)	630	51.0	54.9	55.7	57.2	57.2	57.3	56.5	56.5	57.9	54.7	49.6	
TAMB 58. DEG F	800	54.1	55.7	56.6	56.1	57.5	56.7	56.3	60.1	56.6	54.2	48.8	
(14.) DEG K)	1000	54.0	54.9	56.2	57.2	57.5	59.3	59.7	60.7	58.1	52.9	49.9	
T-RT 49. DEG F	1250	54.6	58.2	57.6	58.6	60.4	62.5	63.3	62.5	60.4	59.7	49.9	
(12.6. DEG K)	1600	59.9	62.1	61.7	64.7	65.8	66.3	66.8	67.3	63.1	51.6	47.3	
HACT 0.37 G*/M3	2000	61.9	63.4	63.5	67.1	66.3	69.1	68.4	68.5	64.1	54.3	47.7	
(0.0637 KG/M3)	2500	57.7	60.2	62.8	65.4	67.2	68.5	67.6	67.0	62.9	55.7	46.9	
MFA 7139. RPM	3150	57.4	60.4	63.8	66.9	68.9	70.4	68.5	69.4	64.6	56.5	49.1	
(747. RAD/SEC)	4000	57.1	60.7	63.7	66.9	70.2	71.4	71.2	70.3	66.7	56.5	47.8	
NPK 7202. RPM	5000	55.2	58.8	62.7	67.0	69.2	70.6	69.9	69.6	64.9	55.9	44.7	
(754. RAD/SEC)	6300	52.2	56.9	60.1	65.1	66.8	68.4	67.6	67.3	61.2	51.7	42.2	
NFD 8823. RPM	8000	49.8	53.7	57.3	62.5	64.7	65.9	66.1	65.1	58.9	51.2	38.1	
(924. RAD/SEC)	10000	44.7	51.1	55.5	61.1	62.7	64.1	64.2	63.4	56.6	46.2	33.0	
NO. OF BLADES 15	12500	43.3	46.7	52.1	58.9	59.4	61.2	60.5	59.1	51.6	44.7	25.7	
FAN TIP SPEED	16000	35.8	40.5	45.0	56.0	52.7	53.8	53.7	52.2	44.1	37.5	11.8	
623. FT/SEC	20000	30.6	33.9	39.1	53.1	46.7	47.7	46.2	46.4	37.1	28.9		
	25000	23.5	25.1	32.6	49.6	38.5	38.9	38.4	35.0	25.8	15.1		
	31500	18.7	13.8	19.4	38.3	27.8	27.9	25.5	26.9	8.4			
	40000			2.6	25.9	13.5	16.4	6.8					
	50000				7.8								
	63000												
	80000												
OVERALL CALCULATED		83.5	78.6	72.4	74.1	77.7	78.9	78.6	78.1	74.3	64.5	63.3	
	PASS	81.5	83.8	86.0	89.7	91.5	92.7	92.5	91.9	88.3	81.5	73.1	

MODEL SOUND PRESSURE LEVELS (RE: 0.0002 DYNES/SQ. CM.)
ANGLES FROM INLET (DEGREES (ARP MAPLANE))

	FREQ.	5a. (1.02)	6a. (1.19)	7a. (1.36)	8a. (1.53)	9a. (1.71)	10a. (1.88)	11a. (2.06)	12a. (2.2	(2.4	14a. (2.73)	15a. (2.74)	0.	0.	0.	2.	4.	3.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. IN)	100	71.0	72.8	73.4	74.5	77.5	79.5	79.2	77.9	80.8	86.2	88.8							113.8
VEHICLE RUNS	125	79.2	77.3	76.9	78.2	82.3	82.6	81.7	83.6	84.8	90.7	88.6							116.6
CONFIG 2	160	76.8	76.8	76.7	78.1	79.5	79.5	80.4	82.6	84.8	87.4	88.3							115.8
LOC SCHENECTADY	200	75.0	75.1	75.7	77.8	80.9	81.5	81.7	84.6	85.8	89.2	89.8							116.2
DATE 11/2/74	250	77.7	79.0	80.7	81.8	82.3	83.2	84.9	85.6	88.8	84.7	89.8							118.2
RUN 10/7	315	79.8	80.8	81.2	82.3	82.3	83.5	83.9	84.6	85.8	87.9	87.8							117.8
TAPE	400	79.3	80.1	79.7	80.9	82.5	82.5	82.9	84.4	85.1	86.7	86.6							116.6
BAR 30.0 HG	500	77.5	78.1	78.7	80.1	82.5	81.8	82.4	83.9	84.1	85.2	85.3							116.1
(31172. N/M2)	630	79.1	80.1	81.2	82.1	83.3	84.0	85.2	86.1	86.1	89.0	85.1							117.8
TAMB 50. DEG F	800	81.1	81.3	81.7	81.6	84.8	84.8	85.7	87.4	86.3	85.7	84.8							118.8
(283. DEG K)	1000	80.3	81.1	81.2	82.1	84.3	85.0	86.4	87.4	86.6	84.4	83.1							118.2
THET 45. DEG F	1250	81.1	82.1	82.9	83.9	86.1	87.5	89.2	89.6	87.6	86.0	83.6							120.4
(280. DEG K)	1600	83.4	84.6	84.7	86.7	88.1	89.8	90.4	90.9	89.6	85.5	83.6							122.6
MACT 6.37 (6.037 MACH)	2000	89.4	90.2	91.4	93.2	94.1	99.6	95.9	96.9	97.1	92.5	88.1							130.4
	2500	86.1	88.7	89.6	92.3	93.7	95.1	95.6	97.3	92.6	89.0	88.3							127.6
NFA 7928. RPM	3150	85.1	86.9	89.4	92.5	94.7	95.8	98.6	98.8	94.6	91.0	88.8							128.6
(830. RAD/SEC)	4000	86.5	89.1	92.5	95.5	97.1	99.5	96.5	100.0	96.6	93.0	89.3							130.2
NFK 7996. RPM	5000	84.0	87.6	89.7	94.5	95.8	97.5	97.9	98.1	93.7	89.9	88.7							128.6
(837. RAD/SEC)	6300	82.8	87.1	89.9	96.1	96.9	97.2	97.7	96.2	93.7	90.9	87.8							128.2
NFD 8823. RPM	8000	81.1	85.0	88.2	94.8	95.4	96.1	96.7	97.7	92.3	89.3	88.1							126.2
(924. RAD/SEC)	10000	79.9	83.6	88.0	94.4	95.9	95.2	96.7	97.4	92.7	89.5	89.5							126.8
NO. OF BLADES 15	12500	78.9	83.3	86.8	93.7	96.3	94.6	96.3	97.0	91.4	90.2	90.5							126.6
FAN TIP SPEED	16000	75.6	80.0	83.4	90.3	97.5	91.5	93.7	94.3	89.2	90.5	90.5							126.6
692. FT/SEC	20000	75.3	78.8	82.4	101.2	98.9	91.2	93.4	94.2	89.0	92.4	93.3							130.8
	25000	75.9	77.2	81.8	99.8	97.2	90.0	92.3	93.1	89.3	93.7	94.1							129.6
	31500	75.9	76.5	79.7	97.1	95.9	89.2	90.8	91.3	88.5	93.6	94.8							129.6
	40000	76.8	74.4	76.3	95.0	94.1	87.9	88.2	89.0	86.0	93.5	94.3							128.8
	50000	78.7	71.4	75.3	95.1	93.6	85.2	86.0	86.4	83.5	93.4	95.2							126.2
	63000	80.5	69.6	71.5	92.0	92.6	82.6	79.9	83.0	81.5	91.8	92.8							130.7
	80000	83.1	71.0	72.7	88.7	89.4	82.3	75.0	82.7	81.5	87.8	89.5							131.6
OVERALL MEASURED																			
OVERALL CALCULATED		96.5	98.2	100.4	108.8	108.3	107.5	108.1	108.8	105.3	104.9	104.8							142.8
PNDE		109.2	111.5	113.9	117.2	118.0	120.4	120.7	121.4	118.2	115.0	113.0							

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SIDELINE 230. FT. (60.96 M)
VEHICLE R455
CONFIG 2
LOC CHEMECTADY
DATE 1/2/74
RUN 1077
TAPE
BAR 30.0 MB (611.72. MB/2)
TAMB 50. DEG F (283. DEG K)
TWET 45. DEG F (280. DEG K)
HACT 6.37 GM/M3 (.00837 KG/M3)
NFA 7925. RPM (830. RAD/SEC)
NFK 7996. RPM (837. RAD/SEC)
NFB 8523. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 892. FT/SEC

FREQ.	50. (1.02)	63. (1.29)	80. (1.63)	100. (1.97)	125. (2.54)	160. (3.26)	200. (4.07)	250. (5.09)	315. (6.42)	400. (8.14)	500. (10.18)	630. (12.84)
50												
63												
80												
100	45.7	50.6	51.7	57.3	58.9	54.5	53.5	54.1	55.6	58.5	57.4	
125	56.1	55.5	55.1	57.7	57.6	58.9	58.9	58.9	59.4	59.9	57.2	
160	52.8	54.4	54.9	56.4	57.7	57.3	57.6	56.7	59.0	59.5	56.5	
200	51.7	52.6	53.7	54.8	58.1	59.2	59.7	60.5	59.6	60.1	57.9	
250	54.3	57.0	58.6	59.9	60.3	60.9	61.9	61.4	60.2	60.4	57.2	
315	55.5	58.2	59.0	60.4	60.2	61.0	60.8	60.6	59.9	59.5	55.2	
400	54.9	57.3	57.4	58.9	60.4	60.4	59.7	60.0	59.0	58.1	54.0	
500	53.8	55.2	55.3	56.8	59.3	59.1	59.1	59.4	57.4	57.1	52.2	
630	55.2	57.1	56.7	59.9	61.0	61.3	61.7	61.5	59.7	56.9	51.6	
800	57.1	58.2	56.1	61.3	62.4	61.6	62.1	62.6	56.6	56.4	51.0	
1000	56.2	57.9	58.5	59.6	61.7	62.1	62.7	62.4	59.8	54.9	48.9	
1250	56.8	58.7	60.1	61.3	63.4	64.4	65.3	64.5	61.6	56.2	49.0	
1600	56.9	61.1	61.7	63.9	65.3	66.5	66.3	65.5	62.4	55.6	47.5	
2000	64.7	66.4	64.2	65.3	73.1	72.3	73.6	73.3	69.6	62.6	52.5	
2500	61.2	64.7	66.3	69.1	70.4	71.4	71.1	70.5	64.8	59.2	50.2	
3150	59.9	62.7	65.7	68.1	71.2	71.4	70.8	72.6	66.6	59.6	49.6	
4000	60.8	64.4	65.5	71.7	73.2	75.1	74.2	73.3	67.9	60.7	50.9	
5000	58.8	62.6	65.4	70.4	71.7	72.6	72.4	71.1	64.0	57.2	47.7	
6300	55.9	61.4	64.9	70.3	71.1	71.8	71.3	71.3	63.4	56.7	46.7	
8000	54.0	58.2	62.1	68.0	69.4	69.6	69.1	68.3	60.3	53.0	43.9	
10000	50.3	55.1	60.3	66.9	68.5	67.1	67.4	66.1	58.4	50.5	40.8	
12500	46.3	52.4	54.9	68.1	67.1	64.4	64.5	62.0	53.6	46.4	35.2	
16000	38.8	45.2	49.6	66.2	64.2	57.3	57.7	55.5	45.8	39.2	28.3	
20000	32.8	38.9	43.9	63.3	60.7	51.9	52.0	49.2	38.1	31.7	12.9	
25000	25.3	29.9	36.4	55.1	52.2	43.6	43.2	39.2	28.0	19.4		
31500	18.5	18.5	24.2	42.5	40.0	32.3	30.3	24.6	11.8			
40000		0.4	7.6	25.7	24.2	14.6	10.8	3.1				
50000				6.2	4.1							
63000												
80000												
OVERALL CALCULATED	70.9	73.6	76.0	80.5	81.3	82.4	81.9	81.2	76.3	71.5	66.5	
PNDE	84.1	87.0	90.0	93.5	94.8	96.1	95.5	94.9	89.9	84.0	75.9	

FULL SCALE DATA PREDICTION PROGRAM

PRINT DATE = MONTH 11 DAY 22 HR. 17.6

MODEL SCALE PROPELLER (SR. NO. 00 7C MODIFIED LOCKHEED NO. 1A7)

A. LOCKHEED INLET W/SPINNER, CUFF Horizons)

		5e.	6e.	7e.	8e.	9e.	1e.	11e.	12e.	13e.	14e.	15e.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	(1.0^2)	(1.2)	(1.36)	(1.53)	(1.7)	(1.00)	(2.04)	(2.28)	(2.52)	(2.80)	(2.76)	0.	110.	110.	110.	110.	110.	1
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.0	72.8	74.4	74.8	75.0	75.5	75.9	77.6	80.8	85.9	88.1							113.9
VEHICLE Rees	125	70.7	77.3	78.9	79.1	81.5	82.2	81.4	83.0	84.6	84.2	84.3							118.9
CONFIG 2	160	76.0	77.3	76.4	77.4	78.3	79.2	80.2	82.0	84.0	87.4	87.9							119.9
LOC SCHENECTADY	200	75.5	75.3	75.4	77.6	79.5	82.0	81.4	84.1	85.1	84.4	91.1							118.9
DATE 11/2/74	250	77.5	79.3	80.7	81.6	82.3	83.7	84.7	86.1	86.3	88.9	90.1							116.9
RUN 10/9	315	79.0	80.5	80.9	81.6	82.3	83.5	83.9	84.9	85.3	87.7	88.3							117.9
TAPE	400	78.5	79.8	80.2	80.6	81.3	82.5	83.2	84.4	84.8	86.2	87.0							118.9
BAR 30.0 HG	500	77.8	78.3	78.7	80.6	81.5	82.0	82.9	83.8	84.1	84.4	85.6							119.9
(101.72. K/M2)	630	78.8	80.3	80.4	82.1	82.5	84.3	84.7	85.9	85.8	86.2	85.1							117.9
TAMB 50. DEG F	800	81.6	81.3	81.7	83.1	83.9	84.5	85.4	87.4	86.6	85.7	84.8							118.9
(283. DEG K)	1000	80.3	81.1	81.4	82.4	82.8	85.0	86.2	87.6	86.8	84.4	83.1							119.9
TMET 45. DEG F	1250	81.1	81.9	82.7	83.4	85.5	87.0	89.2	90.1	88.6	85.5	82.6							120.9
(280. DEG K)	1600	83.6	84.4	84.2	86.8	87.9	89.8	89.6	90.5	89.8	89.7	85.8							121.9
MACT .637	2000	86.9	90.4	91.2	95.2	96.1	100.1	99.8	98.8	96.8	92.8	87.3							120.9
(.6637 KG/M3)	2500	85.6	88.2	89.1	91.5	93.7	94.8	95.8	96.3	92.4	89.8	85.6							126.9
NFA 7937. RPM	3150	86.1	86.9	89.4	92.3	94.4	95.8	96.8	94.8	94.8	90.5	88.5							127.9
(831. RAD/SEC)	4000	89.4	88.9	92.0	95.5	97.1	99.3	99.5	100.5	96.3	92.7	89.2							130.9
NFK 8007. RPM	5000	83.7	87.6	89.5	94.5	96.1	97.5	98.4	98.1	93.5	89.9	84.9							129.9
(838. RAD/SEC)	6300	82.9	86.6	89.4	94.1	95.2	97.4	97.4	99.0	93.2	90.1	86.0							128.9
NFD 8823. RPM	8000	82.6	84.3	87.5	92.8	93.6	95.6	96.5	96.2	92.8	88.8	84.8							127.9
(924. RAD/SEC)	10000	79.7	83.8	87.5	92.4	93.7	95.2	96.7	97.4	93.0	89.8	82.2							127.9
NO. OF BLADES 15	12500	78.9	82.8	86.3	90.6	93.5	94.8	95.8	97.0	91.7	89.2	85.0							127.9
FAN TIP SPEED	16000	75.4	79.5	82.9	88.6	91.5	91.3	93.2	94.3	89.2	89.1	83.2							126.9
693. FT/SEC	20000	75.3	78.6	82.4	88.5	91.1	90.9	93.4	93.9	89.7	89.9	84.6							128.9
	25000	75.6	77.2	81.3	87.0	90.0	90.0	92.3	93.0	89.3	90.0	87.6							127.9
	31500	74.6	76.3	79.7	82.1	87.2	88.7	90.3	91.6	88.8	91.4	88.1							129.9
	40000	75.0	74.2	77.5	80.3	84.8	86.5	88.5	89.5	85.2	90.5	89.3							126.9
	50000	76.7	76.6	75.0	80.8	81.3	84.8	85.7	85.6	82.3	90.8	87.4							125.9
	63000	78.7	80.4	71.0	86.5	79.8	81.6	79.4	82.0	79.5	89.5	86.0							125.9
	80000	83.1	78.3	72.7	83.7	80.6	82.1	74.5	82.6	81.0	85.9	83.5							126.9
OVERALL MEASURED																			
OVERALL CALCULATED		96.3	98.1	100.0	106.2	105.6	107.5	108.0	109.0	105.1	103.7	101.5							140.9
	PWL	130.2	131.3	133.5	136.9	136.3	138.3	138.0	139.7	136.2	135.4	132.2							

MODEL SOUND PRESSURE LEVELS (REF. 20 MICRO PA) AT 70 PERCENT DES. FAN SPEED

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.57)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.0	50.6	52.7	57.3	58.4	54.5	53.2	52.6	55.4	50.3	57.7						
VEHICLE RPSS	125	55.6	55.0	55.1	57.4	59.8	60.1	58.7	59.8	59.1	54.4	57.7						
CONFIG 2	160	52.5	54.9	54.5	56.1	58.5	57.0	57.8	54.9	59.0	59.5	58.7						
LOC SCHENECTADY	200	52.2	52.9	53.4	55.8	57.6	58.7	58.5	60.0	59.4	60.3	58.0						
DATE 11/2/74	250	54.1	56.7	58.6	58.7	60.3	61.4	61.8	61.6	60.5	60.4	57.7						
RUN 10/8	315	55.5	57.9	58.7	59.6	60.2	61.0	60.6	60.6	59.4	58.2	58.7						
TAPE	400	54.9	57.1	57.9	58.6	59.1	60.0	59.9	60.0	58.5	57.0	54.0						
BAR 30.0 HG	500	53.3	55.5	56.3	58.2	58.3	59.4	58.6	58.1	57.5	56.4	52.4						
(01172. M/S2)	630	55.9	57.4	58.0	59.9	60.2	61.5	61.2	61.2	59.8	57.2	51.8						
TAMB 50. DEG F	800	57.6	58.2	59.1	60.4	61.4	61.7	61.8	62.6	60.0	58.4	51.0						
(283. DEG K)	1000	58.2	57.9	58.7	59.9	60.2	62.1	62.4	62.7	59.8	54.9	49.9						
TRET 45. DEG F	1250	56.8	58.5	59.8	60.8	63.1	64.7	65.3	65.0	61.4	55.7	49.0						
(280. DEG K)	1600	59.1	60.8	61.2	63.7	65.0	66.5	65.8	65.5	62.4	55.5	47.8						
MACT 6.37 GM/M3	2000	64.2	66.7	65.0	72.1	73.1	73.6	75.6	74.0	69.4	61.5	51.7						
(.00637 KG/M3)	2500	60.7	64.2	65.8	68.6	70.4	71.2	70.9	70.5	64.4	57.5	49.4						
NFA 7937. RPM	3150	59.9	62.7	65.7	68.9	70.9	71.9	70.8	72.4	66.4	59.1	49.6						
(831. RAD/SEC)	4000	61.1	64.2	66.3	71.7	73.2	74.9	74.2	73.8	67.4	60.5	50.0						
NFK 8007. RPM	5000	57.7	62.6	65.2	70.4	71.9	72.6	72.9	71.1	64.7	57.2	46.6						
(838. RAD/SEC)	6300	55.9	60.9	64.4	69.3	70.3	72.1	71.1	71.0	62.9	54.8	45.0						
NFD 8823. RPM	8000	52.5	57.9	61.3	67.0	67.7	69.1	68.9	68.8	60.6	52.2	40.6						
(924. RAD/SEC)	10000	49.7	55.1	59.8	67.0	66.2	67.1	67.4	66.1	58.6	50.5	38.0						
NO. OF BLADES 15	12500	46.3	51.9	56.4	65.9	64.1	64.4	64.0	62.9	53.5	45.4	29.7						
FAN TIP SPEED	16000	38.5	44.7	49.3	62.4	57.7	57.0	57.2	55.5	45.6	38.0	17.1						
693. FT/SEC	20000	32.8	38.6	43.9	57.5	53.0	51.7	52.0	48.9	36.9	29.2	4.4						
	25000	25.0	29.9	35.6	52.3	45.0	43.6	43.2	39.7	28.0	15.0							
	31500	12.2	18.3	24.2	37.5	32.2	31.8	29.8	25.1	11.1								
	40000		0.1	6.9	19.9	14.9	14.1	11.0	2.6									
	50000				0.9													
	63000																	
	80000																	
OVERALL CALCULATED		70.7	73.5	75.7	79.7	80.8	82.4	81.9	81.4	76.1	71.3	66.7						
PNDB		83.8	86.9	89.6	93.2	94.5	96.0	95.5	95.2	89.6	83.7	79.3						

ANGLES FROM INLET (DEGREES (A.I. Nacelle))

	FREQ	5no	6no	7no	8no	9no	10no	11no	12no	13no	14no	15no	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	70.0	69.8	74.7	75.9	74.5	73.5	71.2	67.4	70.4	75.1	76.9							107.5
VEHICLE ROSS	125	71.7	72.3	73.7	69.1	70.3	69.5	69.9	70.6	72.7	74.1	74.1							109.5
CONFIG 2	160	70.0	67.1	66.9	67.4	69.6	69.0	70.2	71.7	72.6	74.9	76.0							104.5
LCC SCHENECTADY	200	71.5	66.8	67.7	68.1	69.8	71.5	72.4	74.2	75.2	74.9	76.1							106.1
DATE 11/2/74	250	74.0	69.3	70.7	71.4	71.3	73.1	73.9	74.4	74.7	75.1	77.1							107.5
RUN 10/9	315	70.2	70.0	71.7	72.4	72.5	74.0	73.7	74.4	74.7	75.9	76.1							107.5
TAPE	400	71.0	71.1	70.9	71.4	72.3	73.5	73.4	74.4	74.4	74.0	74.1							106.6
BAR 30.0 MB	500	72.5	70.1	69.9	71.2	71.8	72.5	72.7	73.9	73.9	74.4	73.3							106.2
(0.1172. N/M2)	630	73.1	72.3	72.7	73.2	73.6	75.3	75.9	77.2	77.4	77.4	75.3							109.1
TAMB 50. DEG F	800	77.6	73.6	74.2	74.7	75.1	76.3	77.0	79.2	78.9	77.1	74.4							110.4
(283. DEG K)	1000	73.3	73.1	73.4	74.4	74.6	77.3	79.4	80.4	79.9	77.4	73.6							110.2
THET 45. DEG F	1250	78.1	79.1	77.9	81.5	81.4	83.6	84.0	86.2	86.9	83.7	77.3							110.1
(280. DEG K)	1600	78.4	79.1	78.7	80.5	81.6	83.4	84.1	85.7	84.2	82.4	77.1							110.2
HACT 0.37 GM/M3	2000	79.4	78.7	78.4	81.3	82.9	84.1	84.6	84.9	83.9	80.9	76.3							110.2
(.00637 KG/M3)	2500	77.9	79.4	80.4	83.7	84.9	87.4	87.1	89.6	89.4	84.4	81.3							120.1
NFA 5544. RPM	3150	78.8	77.9	79.8	82.1	85.2	87.5	87.9	88.6	90.2	84.7	81.8							120.1
(580. RAD/SEC)	4000	78.3	77.9	79.8	82.3	85.4	85.1	88.0	91.0	88.9	84.4	80.0							120.0
NFK 5593. RPM	5000	77.5	78.3	78.7	82.5	84.9	86.6	87.4	87.2	87.8	82.1	77.9							118.4
(586. RAD/SEC)	6300	72.3	74.4	76.4	81.2	83.5	85.5	86.7	86.0	86.4	81.5	77.5							117.1
NFJ 8823. RPM	8000	71.4	72.5	74.7	80.9	81.8	84.1	85.5	86.7	86.4	80.5	77.1							116.1
(924. RAD/SEC)	10000	71.2	70.9	73.5	81.7	81.2	83.7	85.2	86.0	85.8	80.3	77.0							116.0
NO. OF BLADES 15	12500	72.9	69.5	72.3	82.7	81.4	82.4	84.3	86.1	84.7	79.4	77.0							115.0
FAN TIP SPEED	16000	70.9	67.0	68.9	84.4	79.0	80.6	81.4	83.6	81.8	77.2	75.5							113.1
484. FT/SEC	20000	71.3	65.8	67.9	85.3	79.1	78.5	80.8	82.2	81.7	76.3	76.0							113.0
	25000	71.9	65.7	66.6	85.8	77.5	76.0	78.6	80.1	79.4	77.2	75.3							112.4
	31500	71.9	65.8	66.2	82.4	75.0	75.7	77.3	78.6	78.5	78.3	78.1							111.6
	40000	73.0	64.9	65.5	78.8	71.1	73.0	76.0	78.5	76.0	76.2	77.1							110.1
	50000	75.9	66.6	67.3	77.6	70.3	71.7	73.2	73.9	72.3	77.3	69.4							110.0
	63000	78.5	67.1	69.0	76.5	68.5	70.4	70.9	70.3	69.3	76.7	72.3							112.1
	80000	83.1	70.0	72.7	71.2	70.6	72.1	72.3	72.0	71.1	71.2	70.0							121.0
OVERALL MEASURED																			
OVERALL CALCULATED		90.2	88.6	89.8	95.2	94.8	96.0	97.6	98.9	98.4	94.5	91.7							130.1
	PWL	100.7	101.5	102.7	105.8	105.0	105.0	106.5	107.2	107.0	103.3	100.1							

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MODEL NOTE - ... 11 MAY 22 ... 17.6

MODEL SOUND PRESSURE LEVELS (REF. 20 MICRO PA 75 PERCENT SEL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		5R.	6R.	7R.	8R.	9R.	10R.	11R.	12R.	13R.	14R.	15R.	0.	0.	0.	0.	0.	0.
FREQ.		(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.05)	(2.24)	(2.42)	(2.60)	(2.77)	(0.	)(0.	)(0.	)(0.	)(0.	)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.8	47.6	52.9	54.1	53.4	51.5	48.5	43.6	45.1	47.5	45.6						
VEHICLE R455	125	48.6	48.3	48.8	46.5	48.6	45.4	46.2	47.1	47.2	46.3	44.5						
CONFIG 2	160	46.8	44.7	45.0	45.7	46.2	46.8	47.3	47.7	47.3	46.9	44.7						
LOC SCHENECTADY	200	48.2	44.3	45.7	44.7	47.4	49.2	49.5	50.1	49.5	47.7	46.2						
DATE 11/2/74	250	50.6	46.7	48.6	48.5	49.8	50.7	50.9	50.2	48.4	46.4	47.7						
RUN 10/9	315	46.7	48.2	49.5	50.4	50.5	51.0	50.5	50.1	48.7	47.4	43.5						
TAPE	400	47.1	48.3	48.7	49.3	50.2	51.0	50.2	50.0	48.3	46.0	41.2						
BAR 30.0 IN HG	500	46.8	47.2	47.6	48.8	49.5	49.9	49.3	49.4	47.7	45.4	40.2						
(101720. N/M2)	630	49.2	49.4	50.2	50.9	51.2	52.0	52.5	52.5	51.0	48.4	41.9						
TAMB 50. DEG F	800	51.0	50.5	51.6	52.3	52.6	53.5	54.3	54.4	52.4	47.6	41.0						
(283. DEG K)	1000	49.2	49.9	50.7	51.0	52.0	54.3	54.7	55.5	53.2	47.9	39.4						
TWET 45. DEG F	1250	53.8	55.7	55.1	57.0	58.7	60.5	61.6	61.0	60.0	53.9	44.8						
(280. DEG K)	1600	53.9	55.6	55.7	57.7	58.3	60.1	60.1	60.3	59.0	52.3	42.0						
HACT 6.37 GM/M3	2000	54.7	54.9	56.2	58.3	59.3	60.6	60.4	59.3	56.4	50.4	40.7						
(.00637 KG/M3)	2500	53.0	55.5	57.0	58.2	61.7	63.7	64.6	63.8	61.7	54.6	45.2						
NFA 5544. RPM	3150	51.6	53.7	56.2	59.7	62.4	63.9	63.0	63.4	62.0	53.3	44.1						
(580. RAD/SEC)	4000	50.6	53.2	55.7	59.5	62.5	63.7	63.5	64.3	60.0	52.1	41.0						
NFK 5563. RPM	5000	47.5	51.4	53.4	58.5	60.7	62.1	61.9	61.2	58.0	49.4	39.3						
(583. RAD/SEC)	6300	45.4	48.7	51.4	56.4	58.6	60.1	60.3	60.1	56.2	47.4	36.5						
NFB 8823. RPM	8000	43.3	45.7	48.6	54.0	55.9	57.6	57.9	57.4	54.4	43.7	32.8						
(924. RAD/SEC)	10000	41.2	42.4	45.8	50.6	53.7	55.0	55.0	54.7	51.4	40.9	29.0						
NO. OF BLADES 15	12500	40.3	38.7	42.4	53.2	51.6	51.9	52.5	51.9	47.0	35.6	22.4						
FAN TIP SPEED	16000	34.0	32.2	35.3	51.2	44.7	45.6	45.5	44.8	38.4	26.1	9.3						
684. FT/SEC	20000	28.8	25.9	29.4	47.4	41.0	39.2	39.2	37.2	31.0	17.6							
	25000	21.3	18.4	21.4	41.1	32.5	30.2	29.4	26.3	18.1	2.6							
	31500	9.5	7.0	10.7	27.8	20.0	18.9	18.8	11.9	1.7								
	40000				10.5	1.2	1.1											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.6	64.5	65.9	69.1	70.6	72.6	72.0	71.8	69.5	62.8	56.0						
PNDB		75.5	77.3	79.0	82.2	84.2	85.0	85.5	85.7	83.3	75.8	67.2						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 13.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.3	72.1	75.4	77.4	77.0	75.3	72.9	69.4	73.1	73.6	74.6							108.5
VEHICLE R-55	125	66.3	67.8	69.9	69.4	69.0	68.5	68.7	71.2	73.6	72.1	72.9							104.1
CONFIG 3A	160	65.5	66.8	65.9	67.1	67.8	68.3	69.9	70.8	75.1	73.9	73.8							104.1
LOC SCHENECTADY	200	64.5	66.6	65.7	67.6	69.8	71.3	72.7	74.2	76.4	75.9	76.1							106.0
DATE 11/11/74	250	67.0	68.8	69.4	70.9	71.5	72.3	73.4	73.7	75.6	74.6	74.4							106.3
RUN 13/2	315	67.3	69.3	69.9	71.1	72.0	72.3	73.2	74.2	76.4	74.6	73.4							106.5
TAPE	400	66.3	68.3	69.2	70.1	71.3	72.3	72.7	74.2	76.9	74.1	71.6							106.2
BAR 29.8 HG	500	65.8	67.6	68.2	70.2	71.6	72.3	73.9	73.9	76.4	72.6	70.6							106.8
(99494. N/M2)	630	67.6	70.1	70.7	72.7	74.1	76.1	76.4	76.4	79.1	75.9	72.4							108.7
TAMB 46. DEG F	800	69.9	71.6	71.7	73.9	75.3	76.1	77.4	78.9	80.4	76.4	71.6							109.9
(281. DEG K)	1000	68.1	70.3	72.7	74.2	75.1	77.1	78.4	79.4	81.4	75.6	70.4							110.4
TWET 43. DEG F	1250	71.6	75.6	77.7	78.7	81.1	82.1	85.4	86.2	87.6	82.4	76.9							110.6
(279. DEG K)	1600	72.4	77.1	78.4	79.3	81.4	82.6	84.9	85.4	86.4	81.2	74.4							110.1
HACT 6.42 GM/M3	2000	73.4	77.4	78.4	81.0	82.9	84.6	84.9	84.6	84.4	79.2	73.1							110.2
(.00642 KG/M3)	2500	74.9	79.7	80.7	83.6	86.2	87.9	89.6	89.1	90.1	83.9	78.1							120.3
NFA 5546. RPM	3150	73.6	78.2	79.9	83.3	85.9	87.4	88.3	88.8	90.6	83.7	77.8							119.9
(581. RAD/SEC)	4000	72.5	78.4	80.3	83.3	86.6	87.8	89.2	90.0	89.6	83.1	77.0							120.3
NFK 5617. RPM	5000	71.0	76.6	78.7	82.3	85.3	86.7	88.2	88.9	88.8	81.8	75.2							119.3
(588. RAD/SEC)	6300	69.8	74.6	76.9	80.6	83.7	85.7	87.7	87.7	89.0	80.8	75.3							118.5
NFD 8823. RPM	8000	67.9	72.5	74.9	79.4	82.1	83.6	86.2	86.2	87.9	79.0	73.6							117.1
(924. RAD/SEC)	10000	66.9	71.1	74.2	79.1	81.4	83.7	85.5	86.2	88.2	79.5	73.8							117.1
NO. OF BLADES 15	12500	65.4	69.5	72.3	77.2	80.8	82.6	84.3	86.8	87.2	78.1	72.3							116.6
FAN TIP SPEED	16000	63.3	66.9	68.6	74.3	77.7	79.0	82.1	83.0	85.4	75.2	69.0							114.2
484. FT/SEC	20000	64.0	65.8	67.8	73.7	76.1	78.6	80.6	83.7	85.1	75.0	68.3							114.2
	25000	64.5	66.3	65.7	72.7	74.1	76.0	78.4	80.5	83.2	72.1	66.1							112.5
	31500	65.2	66.4	65.1	72.5	73.9	75.8	77.7	79.6	82.4	71.4	64.7							112.7
	40000	67.1	65.7	63.6	70.9	71.9	73.9	76.3	77.1	81.6	69.7	60.9							112.7
	50000	70.2	67.9	63.6	71.9	72.3	73.0	74.0	74.4	80.8	67.6	60.5							113.6
	63000	72.2	68.3	64.0	72.7	73.1	72.8	73.2	72.5	80.5	64.4	60.6							116.1
	80000	74.0	70.4	64.3	72.4	73.0	72.3	72.9	73.2	80.2	63.4	61.3							120.1
OVERALL MEASURED																			
OVERALL CALCULATED		84.6	87.9	89.4	92.5	95.0	96.5	98.1	98.7	99.0	93.0	88.2							130.3
	PNOB	96.6	101.1	102.7	105.6	108.3	109.6	111.0	111.6	112.5	106.3	101.1							

PAGE 3. FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 13.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (RAD RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.2	49.8	53.7	55.8	55.4	53.2	50.2	45.6	47.8	46.0	43.2						
125	43.1	45.5	48.1	47.7	47.3	46.4	45.9	47.3	48.2	44.3	41.3						
160	42.3	44.4	44.0	45.4	46.0	46.1	47.1	46.9	49.6	45.9	41.8						
200	41.2	44.1	43.7	45.8	47.9	49.0	49.7	50.1	50.7	47.7	44.0						
250	43.6	46.2	47.3	49.0	49.6	49.9	50.4	49.5	49.8	46.3	42.0						
315	43.8	46.7	47.8	49.2	50.0	49.8	50.8	49.9	50.4	46.2	40.8						
400	42.7	45.6	46.9	48.1	49.2	49.8	49.4	49.8	50.8	45.5	38.8						
500	42.1	44.7	45.8	48.0	49.3	49.7	50.6	49.4	50.2	43.8	37.5						
630	43.8	47.1	48.2	50.4	51.7	53.3	53.0	51.8	52.8	46.9	38.9						
800	45.9	48.5	49.1	51.6	52.9	53.2	53.8	54.1	53.8	47.1	37.8						
1000	44.0	47.1	50.0	51.7	52.5	54.1	54.7	54.5	54.6	46.1	38.2						
1250	47.4	52.2	54.9	56.1	58.4	59.0	61.5	61.0	60.7	52.6	42.3						
1600	47.9	53.6	55.4	56.5	58.5	59.3	60.8	60.1	59.2	51.0	39.3						
2000	48.7	53.6	55.2	58.1	59.8	61.1	60.6	59.1	56.9	48.7	37.5						
2500	50.0	55.7	57.3	60.4	62.9	64.2	65.1	63.3	62.4	53.1	42.0						
3150	48.4	53.9	56.2	59.9	62.4	63.4	63.5	62.7	62.4	52.3	40.9						
4000	46.8	53.7	56.2	59.5	62.7	63.4	64.0	63.3	60.7	50.9	38.8						
5000	45.0	51.6	54.4	58.2	61.2	62.1	62.6	61.9	59.5	49.1	36.3						
6300	42.9	48.9	51.9	55.9	58.8	60.3	61.3	59.8	58.7	46.6	34.3						
8000	39.8	45.6	48.8	53.5	56.2	57.1	58.6	56.9	55.9	42.6	29.4						
10000	37.0	42.6	46.5	51.8	53.9	55.6	56.2	54.9	53.9	40.1	25.8						
12500	32.8	38.6	42.3	47.6	51.1	52.1	52.5	52.6	49.4	34.3	18.9						
16000	26.5	32.1	35.0	41.2	44.4	44.7	46.2	44.2	42.1	24.1	2.8						
20000	21.5	25.8	29.3	35.8	37.9	39.4	39.2	38.6	34.3	14.3							
25000	14.0	19.0	20.3	28.0	29.1	29.6	29.3	26.7	21.9								
31500	2.8	8.3	9.5	17.9	18.9	19.8	17.1	12.8	5.5								
40000				1.5	2.0	1.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.6	63.6	65.7	68.6	70.9	71.8	72.5	71.5	70.4	61.7	53.2						
PNDB	71.5	76.9	78.8	82.1	84.5	85.3	86.0	85.1	84.2	74.8	64.8						

SIDELINE 230. FT. (70.06 M)
VEHICLE R-SS
CONFIG JA
LOC SCHENECTADY
DATE 11/11/74
RUN 132
TAPE
BAR 29.8 HG (99494. N/M2)
TAMB 46. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.42 GM/M3 (.00842 KG/M3)
NFA 5546. RPM (581. RAD/SEC)
NFK 5617. RPM (588. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 484. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 11 DAY 22 HR. 13.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	64. (1.19)	70. (1.36)	83. (1.53)	90. (1.71)	106. (1.88)	116. (2.06)	126. (2.24)	136. (2.42)	146. (2.60)	156. (2.78)	0. 110. 1(0. 110. 110. 1(0.)	PWL
50													
63													
80													
100	71.5	72.8	70.9	71.1	71.5	74.0	74.9	73.4	76.1	77.2	78.8		107.9
125	68.5	70.8	71.9	73.4	72.0	71.8	72.2	73.7	75.9	76.9	77.6		107.3
160	68.0	70.1	69.9	71.1	71.0	71.3	73.4	74.7	77.6	78.9	78.3		107.7
200	67.8	68.8	69.4	72.4	73.5	75.0	75.9	77.7	78.9	80.4	79.8		109.5
250	70.3	71.8	73.2	75.6	75.0	75.5	77.2	77.2	78.6	79.2	78.1		109.9
315	71.3	73.1	74.2	75.1	76.0	76.3	76.9	77.7	79.9	79.2	77.8		110.4
400	70.1	71.3	72.4	73.9	74.5	75.3	76.7	77.2	79.1	77.9	75.8		108.4
500	68.6	70.3	70.9	73.2	74.1	75.0	77.2	76.9	79.1	76.9	74.3		109.0
630	70.1	72.3	73.4	75.2	77.1	78.3	78.9	79.2	81.1	79.0	75.1		111.2
800	72.1	73.6	75.2	76.4	77.6	78.3	79.9	80.9	82.4	79.4	75.3		112.2
1000	70.4	73.3	74.9	76.4	77.6	78.0	80.9	82.4	83.1	78.9	73.8		112.6
1250	72.4	75.6	77.7	78.2	80.4	82.1	84.2	85.4	84.9	80.5	75.3		115.4
1600	80.6	83.6	87.9	84.5	85.9	87.4	90.4	92.4	91.9	86.8	81.1		122.1
2000	76.1	79.9	80.9	83.3	85.4	86.9	88.4	87.9	86.2	81.2	76.1		119.8
2500	75.9	81.2	82.1	85.1	87.2	88.6	89.9	89.9	88.4	83.0	77.8		120.7
3150	78.1	82.9	84.4	87.8	90.7	91.6	95.3	95.1	92.9	88.2	81.5		125.0
4000	75.5	80.6	83.3	86.8	88.9	90.3	92.2	92.3	90.6	84.7	78.7		122.7
5000	75.7	80.8	83.2	86.5	89.8	92.2	92.7	93.4	90.3	85.1	78.7		123.5
6300	73.3	78.6	80.9	85.4	87.7	89.7	90.7	92.0	90.7	83.8	76.2		121.9
8000	71.6	76.3	79.7	84.6	85.9	88.1	91.0	90.7	90.1	82.8	76.8		121.1
10030	70.7	75.3	78.7	85.1	86.4	87.2	90.2	91.4	90.8	83.3	76.7		121.2
12550	69.6	74.0	77.3	81.9	84.6	86.8	89.1	90.3	89.4	81.9	75.5		120.2
16030	66.6	69.9	73.9	78.6	82.0	83.5	86.1	87.3	88.4	78.8	72.4		118.0
20000	66.8	69.5	73.8	80.7	86.8	82.4	85.6	87.7	87.9	78.8	71.7		118.2
25030	66.3	68.6	71.4	78.2	78.6	80.7	83.2	85.8	86.5	76.1	69.5		116.7
31500	67.0	68.1	71.3	80.0	77.9	79.8	82.4	84.8	85.4	75.5	68.4		116.9
40000	67.8	67.8	71.3	78.6	75.9	77.9	81.3	81.6	83.6	74.8	66.1		116.7
50000	71.0	67.6	73.3	76.9	74.0	75.2	79.3	77.4	83.8	72.4	66.7		117.8
63000	73.7	68.3	74.7	72.7	74.1	72.1	83.2	73.5	84.2	71.3	68.3		120.4
80000	74.8	71.4	74.8	71.6	73.5	72.3	76.7	72.8	85.6	71.9	68.7		123.8
OVERALL MEASURED													
OVERALL CALCULATED	87.9	91.3	93.8	96.4	98.4	99.9	102.2	102.7	101.9	96.8	91.5		133.8
PNDB	100.5	104.7	106.5	109.5	111.7	113.8	115.7	115.6	114.4	109.8	104.4		

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 11 DAY 23 HR. 13.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.5	50.6	49.2	49.6	49.9	52.0	52.2	49.6	50.8	49.5	47.4						
125	45.4	48.5	50.1	51.7	50.3	49.7	49.4	49.8	50.4	49.1	48.0						
160	44.8	47.7	48.0	49.4	49.2	49.1	50.6	50.7	52.1	51.0	48.5						
200	44.5	44.3	47.4	50.6	51.8	52.7	53.0	53.6	53.2	52.3	47.7						
250	46.9	49.2	51.1	53.7	53.1	53.2	54.1	53.0	52.8	50.9	45.7						
315	47.8	50.4	52.3	53.2	54.0	53.8	53.8	53.4	53.0	50.7	45.2						
400	46.4	48.6	53.2	51.8	52.4	52.8	53.4	52.8	53.0	49.3	43.0						
500	44.9	47.5	48.6	51.0	51.8	52.4	53.8	52.4	52.9	48.1	41.2						
630	46.3	49.4	51.0	52.9	54.7	55.6	55.5	54.5	54.8	49.9	41.6						
800	48.1	50.5	52.6	54.1	55.1	55.5	56.3	56.1	55.8	50.2	41.5						
1000	48.2	50.1	52.2	53.9	55.3	55.8	57.2	57.5	56.4	49.4	39.7						
1250	48.1	52.2	54.8	55.6	57.6	59.0	60.3	60.3	57.9	50.7	40.8						
1600	50.2	60.1	64.9	61.7	63.8	64.1	66.3	67.1	64.7	55.9	46.0						
2000	51.4	56.1	57.7	60.3	62.3	63.4	64.1	62.3	59.1	50.8	40.5						
2500	51.9	57.2	58.8	61.9	63.9	64.9	65.4	64.1	60.8	52.2	41.7						
3150	52.9	58.7	60.7	64.4	67.2	67.6	70.5	68.9	64.7	56.8	44.6						
4000	49.8	55.9	59.2	63.8	65.3	65.9	67.0	65.5	61.7	52.5	40.5						
5000	49.7	55.9	58.9	62.5	65.7	67.6	67.1	66.4	61.0	52.4	39.7						
6300	48.4	52.9	55.9	60.6	62.8	64.3	64.3	64.1	60.4	49.7	37.2						
8000	43.5	49.4	53.5	58.8	59.9	61.6	63.4	61.4	58.1	46.5	32.3						
10000	40.7	46.8	51.0	57.8	58.9	59.1	60.9	60.1	55.6	43.9	28.0						
12500	39.1	43.1	47.1	52.4	54.9	56.1	57.2	56.1	51.6	38.1	20.1						
16000	29.7	35.1	40.2	45.4	48.6	49.2	50.2	48.5	45.1	26.9	6.3						
20000	23.5	29.6	34.5	42.8	42.7	43.1	44.2	42.6	37.1	17.4							
25000	15.7	21.3	26.8	33.5	33.6	34.3	34.1	31.2	26.2	1.8							
31500	4.6	10.1	15.8	25.4	22.9	23.8	21.9	17.3	8.5								
40000			0.7	9.3	6.0	5.4	3.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.3	66.9	69.8	71.9	74.0	75.1	76.3	75.3	72.1	64.7	56.8						
PNDB	75.2	80.4	82.8	85.9	88.1	88.9	90.7	89.5	86.1	78.4	67.5						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-99
CONFIG 3A
LOC SCHENECTADY
DATE 11/11/74
RUN 13/3
TAPE
BAR 29.8 HG (100494. N/M2)
TAMB 46. DEG F (281. DEG K)
TAET 43. DEG F (279. DEG K)
HACT 6.42 GM/M3 (.00842 KG/M3)
NFA 6344. RPM (664. RAD/SEC)
NFK 6425. RPM (673. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 554. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 11 DAY 22 HR. 13.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
5. MI	100	66.8	71.1	71.7	71.6	72.3	81.3	73.4	73.4	77.4	80.9	82.6							116.5
VEHICLE R-SS	125	73.3	77.8	76.9	76.9	75.0	81.8	78.2	78.4	79.2	80.7	82.3							112.6
CONFIG 3A	160	71.0	73.3	72.7	74.1	74.3	80.5	78.7	78.4	80.6	82.4	82.6							111.9
LOC SCHENECTADY	200	70.8	71.3	72.2	73.9	76.8	80.5	78.9	80.9	81.7	83.7	83.6							112.6
DATE 11/11/74	250	73.5	75.3	76.7	77.0	79.0	81.0	80.7	80.9	82.2	82.6	82.3							113.7
RUN 13/4	315	74.8	76.1	77.2	78.1	79.0	80.3	79.9	80.7	82.4	82.9	81.6							113.6
TAPE	400	73.3	74.8	75.4	76.4	77.5	79.0	79.4	80.4	81.4	81.7	80.1							112.5
BAR 29.8 MG	500	71.8	72.8	73.9	75.7	77.3	78.3	80.4	79.9	80.9	80.9	78.6							112.8
(98494. N/M2)	630	73.1	75.1	76.7	78.4	79.8	81.3	81.9	82.2	82.9	82.0	79.1							114.1
TAMB 47. DEG F	800	74.4	76.1	77.2	78.9	80.3	81.1	82.4	83.7	83.7	81.4	78.3							114.6
(281. DEG K)	1000	73.6	76.1	78.2	79.2	80.1	81.8	83.4	84.7	84.7	80.4	77.6							115.1
THET 43. DEG F	1250	74.6	77.6	79.4	79.7	82.6	84.3	86.4	87.4	86.4	81.2	78.1							117.3
(279. DEG K)	1600	78.1	83.6	84.2	86.5	88.1	90.4	89.6	90.7	90.4	83.2	78.6							121.8
RHOT 0.12 SLG/M3	2000	85.9	85.9	86.2	89.3	91.4	92.6	92.6	92.1	91.7	85.8	79.8							124.1
(.00012 KG/M3)	2500	79.4	83.7	85.1	88.1	90.4	91.6	92.4	92.1	90.9	84.8	79.6							123.4
NFA 7144. RPM	3150	80.1	84.4	86.6	90.1	92.4	93.4	94.8	95.3	94.2	87.8	82.3							125.8
(748. RAD/SEC)	4000	80.3	85.6	88.8	91.3	93.6	95.6	97.3	97.8	95.1	88.7	83.7							127.5
NFK 7228. RPM	5000	79.8	85.1	87.2	90.8	93.4	95.3	95.4	95.4	93.1	86.7	80.7							126.4
(757. RAD/SEC)	6300	77.1	82.6	85.2	89.4	91.5	93.5	94.4	95.2	91.6	84.4	80.5							125.3
NFD 8023. RPM	8000	75.7	80.8	84.2	87.6	90.4	91.9	94.0	94.2	90.9	85.1	79.8							124.3
(924. RAD/SEC)	10000	75.2	80.6	83.7	86.9	90.2	92.2	93.7	93.7	91.8	86.1	79.5							124.4
NO. OF BLADES 15	12500	73.4	78.8	81.8	86.0	88.9	91.1	92.6	93.8	90.2	84.7	78.8							123.8
FAN TIP SPEED	16000	70.9	75.8	78.7	82.9	85.5	88.0	89.9	90.9	87.3	81.3	75.5							121.8
624. FT/SEC	20000	69.4	74.1	76.1	82.0	84.6	86.9	89.9	91.2	87.5	81.6	75.3							121.3
	25000	68.1	72.7	76.8	80.5	83.0	85.5	88.8	89.6	86.6	80.8	73.1							120.3
	31500	68.4	72.8	75.8	79.1	81.2	84.7	86.5	87.6	85.8	78.1	71.5							119.8
	40000	68.5	72.6	74.8	77.3	79.5	82.6	84.0	85.3	83.7	77.4	67.5							119.2
	50000	70.8	69.4	72.9	75.8	76.6	79.5	82.1	81.2	79.7	74.9	66.7							117.9
	63000	72.5	68.8	72.8	73.3	73.8	76.9	77.2	75.8	75.8	72.8	67.3							117.1
	80000	74.2	72.9	73.2	72.1	73.0	74.7	73.9	73.6	73.2	71.4	68.2							120.8
OVERALL MEASURED																			
OVERALL CALCULATED		90.2	94.5	96.5	99.6	102.8	103.8	104.8	105.3	103.3	98.1	94.5							130.2
	PNOB	103.2	107.9	109.9	112.8	115.8	116.9	116.8	116.1	116.6	111.3	107.8							

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	43.7	48.8	49.9	50.1	50.6	59.2	59.7	49.6	52.1	53.3	51.2						
VEHICLE R-9S	125	50.1	55.5	55.1	55.2	53.3	59.7	55.4	54.6	53.7	52.9	50.7						
CONFIG 3A	160	47.8	50.9	50.8	52.4	52.5	58.3	53.8	54.4	55.3	54.5	50.7						
LOC SCHENECTADY	200	47.5	48.8	50.2	52.1	54.1	58.2	56.8	56.8	56.8	55.6	51.5						
DATE 11/11/74	250	50.1	52.7	54.6	56.0	57.1	58.7	57.6	56.7	56.3	54.6	50.0						
RUN 13/4	315	51.3	53.4	55.8	56.2	57.8	57.8	56.8	56.4	56.5	54.5	49.8						
TAPE	400	49.7	51.8	53.2	54.3	55.4	56.5	56.2	56.0	55.3	53.1	47.2						
BAR 29.8 HG	500	48.1	50.3	51.6	53.5	53.1	55.7	57.1	55.4	54.7	52.1	45.6						
(100894. N/M2)	630	48.3	52.1	54.2	56.2	57.5	58.6	58.5	57.5	56.5	52.9	45.6						
TAMB 47. DEG F	800	53.4	53.8	54.6	56.8	57.9	58.2	58.8	58.9	57.1	52.2	44.5						
(281. DEG K)	1000	49.5	52.9	53.5	56.7	57.5	58.8	58.7	58.7	57.6	56.9	43.4						
TWET 43. DEG F	1250	50.4	54.2	56.6	57.1	58.9	61.2	62.5	62.3	59.5	51.4	43.5						
(279. DEG K)	1600	53.7	60.1	61.2	63.7	65.3	67.1	65.6	65.3	63.2	53.1	43.9						
HACT 0.12 GM/M3	2000	56.2	62.2	63.8	64.3	68.3	69.1	68.4	66.6	64.2	54.5	44.2						
(0.00012 KG/M3)	2500	54.5	59.7	61.8	64.0	67.2	68.8	67.9	66.3	63.2	53.9	43.4						
NFA 7144. RPM	3150	54.9	60.2	63.8	66.7	68.9	69.4	70.8	69.2	66.0	56.4	45.3						
(748. RAD/SEC)	4000	54.6	60.9	64.8	67.5	69.7	71.2	72.8	70.3	66.3	56.5	45.5						
NFK 7228. RPM	5000	53.8	60.1	62.9	66.7	69.2	70.6	69.9	68.4	63.8	53.9	41.7						
(757. RAD/SEC)	6300	50.2	56.9	60.1	64.6	66.6	68.1	68.1	67.3	61.2	52.2	39.5						
NFD 6823. RPM	8000	47.5	53.9	58.1	61.8	64.4	65.4	66.4	64.9	58.9	48.7	35.6						
(824. RAD/SEC)	10000	45.3	52.1	56.1	59.6	62.7	64.1	64.4	62.4	57.4	46.7	30.8						
NO. OF BLADES 15	12500	48.9	47.9	51.9	56.4	59.1	60.7	60.8	59.7	52.5	40.9	23.4						
FAN TIP SPEED	16000	34.1	48.2	45.8	49.7	52.2	53.8	54.8	52.8	43.9	30.2	9.3						
824. FT/SEC	20000	26.9	34.1	39.6	44.1	46.5	47.7	48.5	46.2	36.7	20.9							
	25000	17.6	25.4	31.3	35.8	38.8	39.2	38.9	38.8	28.3	8.8							
	31500	6.8	14.8	19.4	24.5	28.2	27.8	28.8	28.9	8.8								
	40000			3.3	7.9	9.6	10.8	7.5										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.7	70.8	72.2	75.4	77.5	78.8	78.7	77.8	74.8	66.8	60.2						
PNDB		77.8	83.4	84.9	88.1	91.2	92.6	92.9	91.8	88.8	79.6	68.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

PROG. DATE = MONTH 11 DAY 22 HR. 13.0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(50. RJ	100	71.2	72.0	74.6	74.3	75.0	76.0	76.4	76.9	80.2	84.7	86.0							112.6
VEHICLE R-SS	125	76.5	77.6	77.1	79.1	81.0	82.2	82.4	83.2	84.6	86.7	87.3							116.1
CONFIG 3A	160	75.2	77.3	77.1	77.6	78.6	79.8	80.2	81.7	84.0	86.2	86.1							115.3
LOC SCHNECTADY	200	74.7	75.3	75.9	76.5	79.3	81.2	81.7	83.7	86.4	87.2	87.6							115.9
DATE 11/11/74	250	77.5	79.5	81.1	82.1	82.8	83.2	84.4	85.2	86.4	87.2	86.8							117.6
RUN 13/5	315	78.2	79.5	80.4	81.1	82.0	83.0	83.2	84.4	85.7	86.4	85.3							116.9
TAPE	400	77.3	78.5	79.4	79.3	81.8	81.5	82.7	84.2	86.6	85.2	83.8							115.9
BAR 29.8 HG	500	75.3	77.3	77.6	79.4	80.8	81.3	83.2	83.4	84.2	84.7	82.3							115.4
(99494. N/M2)	630	77.1	78.8	79.9	81.4	82.8	84.5	84.7	85.4	85.7	85.8	82.3							117.1
TAMB 48. DEG F	800	79.8	81.3	81.9	82.6	84.1	84.3	85.2	86.4	86.4	84.7	81.8							117.9
(282. DEG K)	1000	77.1	79.3	81.4	82.1	82.8	84.5	85.7	87.2	86.4	83.2	80.3							117.7
THET 44. DEG F	1250	78.1	81.1	82.4	83.2	84.8	86.5	86.4	88.9	88.4	84.2	80.8							119.5
(280. DEG K)	1600	79.6	83.1	84.4	85.8	87.1	88.8	89.6	89.9	89.4	84.8	79.8							121.8
MACT 6.39 GM/M3	2000	86.4	88.3	89.9	92.2	94.9	97.3	97.1	96.1	96.2	90.8	83.1							126.2
(.006639 KG/M3)	2500	82.5	86.8	88.1	91.0	92.7	93.8	94.8	95.4	92.2	87.0	82.1							125.8
NFA 7946. RPM	3150	82.6	87.3	89.8	91.8	94.7	95.8	96.1	96.8	93.7	88.5	82.3							127.4
(832. RAD/SEC)	4000	83.3	90.8	91.8	94.0	96.4	98.5	99.8	99.5	97.6	93.4	87.2							130.1
NFK 8032. RPM	5000	82.2	87.8	89.9	93.7	95.3	97.5	97.4	97.7	93.3	88.4	82.4							128.5
(841. RAD/SEC)	6300	81.8	86.8	88.6	92.1	95.2	97.2	97.4	96.2	94.8	89.1	83.8							128.5
NFD 8023. RPM	8000	79.9	85.2	87.9	91.6	93.1	95.6	96.8	96.2	92.9	87.8	81.8							127.5
(924. RAD/SEC)	10000	79.1	84.8	88.2	91.1	93.4	95.2	96.5	97.4	93.3	88.3	81.8							127.5
NO. OF BLADES 15	12500	78.1	83.2	86.7	90.1	92.6	94.3	96.8	97.8	93.2	87.4	81.8							127.3
FAN TIP SPEED	16000	75.6	80.2	83.1	86.5	89.2	91.8	93.4	94.3	89.5	84.3	78.2							124.4
804. FT/SEC	20000	76.8	79.2	82.8	86.2	88.3	90.9	93.6	94.7	90.0	83.8	77.2							124.8
	25000	76.1	78.4	81.7	84.9	87.4	89.5	92.8	93.5	90.1	83.7	76.8							124.5
	31500	76.5	78.2	80.9	83.7	86.2	88.4	90.7	92.1	88.2	82.0	74.7							123.9
	40000	77.9	77.2	80.2	82.4	84.9	86.4	88.9	88.7	86.2	79.9	72.8							123.1
	50000	80.8	77.7	82.1	81.5	82.7	84.8	86.1	85.1	82.8	77.5	69.8							123.8
	63000	82.8	78.2	83.6	80.8	82.4	82.9	83.6	78.9	77.1	73.4	68.4							123.9
	80000	84.4	79.3	83.7	81.2	81.9	82.1	78.1	74.3	73.9	74.1	69.4							127.0
OVERALL MEASURED																			
OVERALL CALCULATED		94.9	98.8	100.1	102.6	104.9	106.8	107.6	108.2	105.3	101.3	97.8							139.4
	PWL	106.7	111.6	113.3	115.5	117.7	119.6	120.1	120.7	118.7	114.9	110.8							

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MODEL SOUND PRESSURE LEVELS (SPL, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.2	50.8	52.9	52.8	54.1	54.0	53.7	53.1	54.8	57.0	55.4						
125	55.4	55.5	55.3	57.4	60.8	60.1	59.7	59.3	59.6	57.9	55.7						
160	52.3	54.0	55.2	55.9	57.0	56.8	57.3	57.7	59.3	58.2	54.2						
200	51.4	52.8	53.9	55.0	57.4	59.0	56.7	58.6	59.7	59.1	55.5						
250	54.1	56.9	59.0	60.2	62.8	60.9	61.4	61.0	60.6	58.9	54.5						
315	54.7	56.9	58.2	59.1	60.8	60.5	60.8	60.1	59.7	58.8	52.7						
400	53.7	55.8	57.1	57.3	58.9	59.0	59.4	59.8	58.8	58.6	51.8						
500	51.6	54.4	55.3	57.2	58.6	58.6	59.8	58.9	57.0	55.9	49.2						
630	53.2	55.8	57.4	59.1	60.5	61.8	61.2	60.8	59.3	55.9	48.9						
800	55.9	58.2	59.3	60.3	61.6	61.4	61.6	61.6	59.9	55.4	48.8						
1000	53.8	55.8	58.7	59.6	60.2	61.6	61.9	62.2	59.7	53.7	46.2						
1250	53.8	57.7	59.6	60.6	62.1	63.4	64.5	63.8	61.5	54.4	46.3						
1600	55.1	59.5	61.4	62.2	64.3	65.5	65.6	64.6	62.2	53.9	44.8						
2000	61.7	64.6	66.7	69.3	71.8	73.8	72.8	70.6	68.7	58.5	47.5						
2500	57.4	62.9	64.7	67.8	69.4	70.2	70.1	69.6	64.4	54.2	45.9						
3150	57.4	63.1	65.9	68.4	71.2	71.9	71.3	70.7	65.5	57.1	45.3						
4000	57.5	65.4	67.7	70.2	72.4	74.1	73.7	72.8	68.8	61.2	49.8						
5000	56.2	62.8	65.8	69.7	71.2	72.8	71.9	70.7	64.1	55.7	43.5						
6300	54.9	61.1	63.8	67.3	70.3	71.8	71.1	70.3	63.7	55.8	42.8						
8000	51.7	58.3	61.8	65.7	67.2	69.1	68.4	68.9	60.9	51.5	37.8						
10000	49.2	56.3	60.5	63.8	65.9	67.1	67.2	66.2	58.8	49.8	33.8						
12500	45.5	52.3	56.8	60.6	63.1	63.9	65.8	62.9	55.5	43.6	29.6						
16000	38.7	45.4	49.5	53.4	55.9	56.7	57.4	55.5	46.1	33.2	12.1						
20000	33.5	39.3	44.3	48.3	50.2	51.6	52.2	49.7	39.2	23.2							
25000	25.5	31.5	36.3	40.3	42.4	43.1	43.6	39.7	28.7	0.3							
31500	14.1	20.1	25.3	29.1	31.2	31.5	30.2	25.3	11.4								
40000		3.2	9.9	13.1	14.1	14.0	11.4	2.0									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.5	73.1	75.4	78.1	80.2	81.5	81.1	80.2	76.1	70.2	64.0						
DBSB	81.6	87.1	89.4	91.8	93.9	95.3	95.8	94.2	90.2	83.3	72.0						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 13.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	64. (1.12)	76. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
50																		
63																		
80																		
100	71.2	73.5	82.6	74.8	75.5	75.7	75.9	76.4	79.9	84.4	86.6							113.3
125	79.0	77.8	82.9	78.6	81.3	81.7	82.4	83.4	84.7	86.2	87.1							116.5
160	75.7	77.0	81.9	77.6	78.5	79.0	80.2	81.7	84.2	86.4	86.8							115.4
200	74.7	75.5	80.1	77.1	79.3	80.5	81.7	83.7	84.9	87.9	87.3							117.5
250	77.7	79.5	88.1	82.3	82.8	83.2	84.7	84.9	86.4	86.9	86.8							118.6
315	78.5	79.5	90.1	81.3	82.3	82.7	83.4	84.4	85.7	87.2	85.6							118.8
400	77.5	78.5	81.4	79.6	81.9	81.7	82.7	83.9	84.7	85.7	83.8							118.1
500	75.0	77.3	77.6	79.4	80.5	81.0	83.2	82.9	83.9	84.4	83.1							115.2
630	76.8	78.5	81.4	81.4	83.1	84.0	84.9	85.4	85.7	85.5	82.1							117.2
800	79.8	81.3	82.1	82.6	83.8	84.3	84.9	86.2	86.2	84.7	81.8							119.8
1000	76.8	79.0	81.1	82.4	82.8	84.3	86.2	87.2	86.7	83.7	81.1							117.8
1250	77.6	81.1	82.1	82.4	85.3	87.0	88.7	89.2	87.8	84.0	80.8							119.0
1600	79.4	83.3	84.5	85.5	87.1	89.1	90.1	90.7	89.7	84.5	79.8							121.4
2000	86.4	88.8	90.4	92.2	95.1	97.8	97.6	96.4	96.2	90.2	83.3							128.6
2500	82.3	86.6	88..	91.0	92.7	94.6	94.9	95.6	92.7	87.0	82.3							126.1
3150	82.1	87.3	89.1	92.0	94.7	95.8	96.3	96.6	94.2	88.5	82.5							127.4
4000	83.3	89.8	92.8	95.0	96.9	98.3	99.5	99.3	97.9	93.4	88.0							130.3
5030	82.2	87.8	89.9	93.7	95.8	97.2	97.9	97.4	93.5	88.7	82.9							128.6
6300	81.0	86.8	89.6	92.3	95.4	96.7	97.9	98.5	94.0	88.9	82.7							128.8
8000	79.4	85.0	88.4	91.3	93.6	95.3	96.5	97.5	92.9	87.5	82.3							127.4
10030	78.6	85.0	88.4	91.1	93.9	95.2	97.0	97.2	93.8	88.1	82.3							127.6
12500	78.1	83.2	86.7	90.1	92.3	94.1	96.8	96.5	92.5	87.7	81.5							126.9
16000	75.6	79.9	83.8	86.5	89.5	91.5	93.4	94.3	89.5	83.8	78.0							124.5
20030	76.3	79.0	83.3	85.9	88.8	91.1	93.6	94.2	89.7	83.8	77.7							124.8
25000	77.1	79.3	82.4	85.2	87.7	89.5	92.8	93.8	89.6	83.9	77.1							124.6
31500	78.3	78.7	81.4	84.0	86.4	88.6	90.7	91.3	88.7	82.3	74.7							123.9
40000	79.7	78.0	81.7	81.9	84.2	86.4	88.9	88.5	85.9	79.6	70.2							123.1
50000	82.8	79.2	83.9	81.5	83.2	84.8	86.1	84.8	82.7	77.7	68.8							123.4
63000	85.3	79.4	84.8	81.1	83.9	83.4	81.1	78.4	77.6	73.1	69.4							125.0
80000	85.7	80.0	84.9	81.2	82.9	82.4	78.8	74.6	74.4	72.1	69.9							120.5
OVERALL MEASURED																		
OVERALL CALCULATED	95.3	98.1	101.3	102.8	105.1	106.7	107.9	108.1	105.5	101.4	97.9							139.6
PNDB	106.6	111.5	114.2	116.0	118.1	119.6	120.5	120.6	118.8	115.0	110.4							

VEHICLE R-SS
CONFIG 3A
LOC SCHENECTADY
DATE 11/11/74
RUN 13/6
TAPE
BAR 29.8 HG (99494. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 44. DEG F (280. DEG K)
HACT 6.39 GM/M3 (.00639 KG/M3)
NFA 7940. RPM (831. RAD/SEC)
NFK 8326. RPM (849. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 693. FT/SEC
RADIAL 17. FT. (5. M)

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM, DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.2	51.3	60.9	53.3	53.9	53.7	53.2	52.6	54.6	56.8	55.2						
125	55.9	55.5	61.0	56.9	59.5	59.8	59.7	59.6	59.2	58.4	55.5						
160	52.5	54.6	60.0	55.9	56.7	55.8	57.3	57.7	58.6	58.5	55.0						
200	51.4	53.3	60.1	55.3	57.4	58.2	58.7	59.6	59.2	59.8	55.2						
250	54.3	56.9	60.0	60.4	60.8	60.9	61.6	60.7	60.6	58.6	54.2						
315	55.0	56.9	60.0	59.4	60.2	60.3	60.3	60.1	59.7	58.7	53.0						
400	53.9	55.8	59.1	57.5	58.9	59.2	59.4	59.5	58.6	57.1	51.0						
500	51.3	54.4	55.3	57.2	58.3	58.4	59.8	58.4	57.7	55.6	49.9						
630	53.0	55.6	58.9	59.1	60.7	61.3	61.5	60.8	59.3	56.4	48.8						
800	55.9	58.2	59.6	60.3	61.4	61.4	61.3	61.4	59.6	55.4	48.0						
1000	52.7	55.8	58.4	59.9	60.2	61.3	62.4	62.2	59.8	54.2	46.9						
1250	53.3	57.7	59.3	59.8	62.6	63.9	64.8	64.0	61.0	54.2	46.0						
1600	54.9	59.8	61.6	62.7	64.3	65.8	66.1	65.3	62.5	54.4	44.8						
2000	61.7	65.1	67.2	69.3	72.1	74.3	73.3	70.8	69.2	59.8	47.7						
2500	57.4	62.7	64.7	67.9	69.4	70.9	70.4	69.8	64.9	56.2	46.2						
3150	56.9	63.1	65.4	68.6	71.2	71.9	71.5	70.4	66.0	57.1	45.6						
4000	57.5	65.1	67.9	71.2	72.9	73.9	74.2	72.6	69.8	61.2	49.8						
5000	56.2	62.8	65.6	69.7	71.7	72.6	72.4	70.4	64.3	55.9	44.0						
6300	54.2	61.1	64.6	67.8	70.6	71.3	71.6	70.6	63.7	54.7	41.7						
8000	51.2	58.1	62.3	65.5	67.7	68.8	68.9	68.1	60.8	51.2	38.1						
10000	48.7	56.5	60.7	63.8	66.4	67.1	67.7	65.9	59.4	48.7	33.5						
12500	45.5	52.3	56.8	60.6	62.6	63.6	64.7	62.4	54.7	43.9	26.1						
16000	38.7	45.1	50.2	53.4	56.2	57.2	57.4	55.5	46.1	32.7	11.8						
20000	33.8	39.0	44.8	48.0	50.7	51.9	52.2	49.2	38.8	23.2							
25000	26.5	32.3	37.0	40.5	42.7	43.1	43.6	40.0	28.2	8.6							
31500	15.9	20.6	25.8	29.4	31.4	31.8	30.2	24.6	11.9								
40000		3.9	11.0	12.6	14.3	14.8	11.4	2.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.5	73.1	77.1	78.3	80.4	81.6	81.5	80.1	76.3	70.4	64.1						
PNDB	81.5	87.0	90.3	92.3	94.3	95.2	96.4	94.0	90.4	83.3	73.3						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 3A
LOC SCHENECTADY
DATE 11/11/74
RUN 13/6
TAPE
BAR 29.8 HG (100894. N/M2)
TAMB 46. DEG F (282. DEG K)
T-ET 44. DEG F (280. DEG K)
HACT 6.39 GM/M3 (.00839 KG/M3)
NFA 7940. RPM (831. RAD/SEC)
NFK 8026. RPM (840. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 693. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 13.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	72.8	73.8	77.2	78.4	78.0	76.3	73.2	69.9	71.4	74.4	75.1							109.6
125	67.0	67.3	70.7	70.1	69.0	68.3	68.7	71.4	71.4	72.7	73.3							104.0
160	71.3	66.6	66.7	66.6	67.8	68.3	69.9	70.9	73.2	74.7	73.8							104.2
200	68.8	65.6	66.4	67.1	70.0	71.5	72.4	73.9	74.7	76.2	75.8							105.8
250	70.5	68.3	69.4	70.9	71.3	72.0	73.4	73.2	74.7	75.4	74.1							106.2
315	75.3	69.8	70.4	71.4	72.5	72.8	73.4	73.9	74.7	75.4	73.8							107.1
400	77.1	68.8	69.9	70.6	71.8	72.3	73.4	74.4	75.2	74.4	71.8							107.2
500	71.8	67.3	68.2	69.9	71.8	72.0	74.2	74.2	74.2	73.4	71.1							106.1
630	75.9	70.1	71.2	72.7	74.3	75.8	76.2	76.4	77.4	76.5	72.3							108.9
800	73.6	71.8	72.9	74.4	75.3	76.6	77.9	78.7	78.9	76.9	72.6							109.9
1000	69.9	70.6	73.2	74.2	75.6	76.8	78.9	79.7	80.2	76.2	70.8							110.4
1250	72.4	76.1	77.2	78.5	80.9	82.3	85.4	85.9	87.4	82.7	76.1							116.5
1600	72.6	76.9	78.2	79.3	81.9	82.9	84.9	85.9	86.4	81.5	74.3							116.3
2000	74.1	77.7	79.2	81.0	82.9	84.4	85.4	84.4	84.2	79.0	73.1							116.3
2500	75.1	79.4	81.1	83.6	85.9	87.6	89.4	89.1	90.2	83.8	77.3							120.2
3150	73.9	78.2	80.1	83.3	85.9	86.9	89.1	89.3	90.9	84.3	77.5							120.2
4000	72.3	77.9	80.3	83.6	87.1	87.6	89.3	90.0	89.1	82.7	76.5							120.3
5000	73.8	76.3	78.5	82.5	85.6	86.8	88.2	88.4	88.3	81.9	74.7							119.1
6300	70.1	74.6	77.2	80.9	83.7	85.0	86.0	86.0	87.6	81.1	74.3							118.3
8000	67.7	73.1	75.2	79.4	81.9	83.9	86.5	86.0	85.9	79.1	73.4							116.8
10000	67.2	71.4	74.2	78.7	81.7	83.0	85.3	86.2	87.1	80.3	73.3							116.7
12500	66.4	69.3	72.8	78.7	80.9	81.9	84.9	86.6	85.0	78.7	72.5							116.2
16000	64.9	66.8	69.7	74.6	77.8	79.3	81.7	83.4	82.6	75.6	69.5							113.5
20000	65.7	66.1	68.9	73.3	76.2	78.5	81.2	83.5	82.5	74.7	68.8							113.6
25000	67.2	66.7	68.3	71.8	74.3	76.1	79.3	80.4	79.4	72.8	67.4							111.8
31500	69.4	66.6	69.0	70.9	74.1	75.8	78.6	79.4	78.8	72.7	66.8							112.1
40000	70.3	67.2	70.1	69.8	72.9	73.8	77.0	77.3	76.8	71.0	65.9							112.0
50000	73.4	69.8	73.0	70.3	72.5	72.9	76.2	73.6	74.0	69.8	67.9							113.0
63000	75.9	69.7	74.6	70.9	73.2	72.8	76.1	71.1	72.4	69.9	68.7							116.1
80000	76.6	71.5	75.2	71.2	73.4	72.4	75.3	71.8	72.6	70.5	69.8							120.3
OVERALL MEASURED																		
OVERALL CALCULATED	87.2	88.0	90.1	92.6	95.2	96.3	98.3	98.7	99.0	93.4	88.2							130.2
PNDB	98.1	101.0	102.9	105.7	108.6	109.4	111.1	111.6	112.2	106.7	100.8							

CONFIG 3A

LOC SCHENECTADY

DATE 11/11/74

RUN 13/7

TAPE

BAR 29.8 MB (99494. N/M2)

TAMB 49. DEG F (283. DEG K)

THET 44. DEG F (280. DEG K)

HACT 6.15 GM/M3 (.00613 KG/M3)

NFA 5567. RPM (583. RAD/SEC)

NFK 5621. RPM (589. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 486. FT/SEC

RADIAL 17. FT. (5. M)

VEHICLE R-5S

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 13.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 3A
LOC SCHENECTADY
DATE 11/11/74
RUN 13/7
TAPE
BAR 29.8 HG (99494. N/M2)
TAMB 49. DEG F (283. DEG K)
TWET 44. DEG F (280. DEG K)
HACT 6.10 GM/M3 (.00810 KG/M3)
NPA 5567. RPM (583. RAD/SEC)
NFK 5621. RPM (589. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 486. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	139. (2.42)	149. (2.60)	159. (2.78)	0. (0.)
FREQ.												
50												
63												
80												
100	49.7	51.6	55.4	56.8	56.4	54.2	50.5	46.1	46.1	46.8	43.7	
125	43.9	45.0	48.8	48.5	47.3	46.2	45.9	47.6	46.0	44.9	41.7	
160	48.1	44.2	44.8	44.9	46.0	46.1	47.1	46.9	47.6	46.7	42.0	
200	45.5	43.1	44.4	45.3	48.1	49.2	49.5	49.8	49.0	48.1	43.7	
250	47.1	45.7	47.3	49.0	49.3	49.7	50.4	49.8	48.8	47.1	41.7	
315	51.8	46.9	48.2	49.4	50.5	50.3	50.3	49.6	48.7	47.0	41.2	
400	53.4	46.1	47.7	48.6	49.7	49.8	50.2	50.0	49.1	45.8	39.8	
500	48.1	44.5	45.8	47.8	49.6	49.4	50.8	49.7	47.9	44.8	37.9	
630	52.8	47.1	48.7	50.4	52.0	53.1	52.7	51.8	51.0	47.4	38.9	
800	46.6	48.7	50.4	52.1	52.9	53.7	54.3	53.9	52.4	47.7	38.8	
1000	45.7	47.4	50.5	51.7	53.0	53.8	55.2	54.7	53.4	46.7	36.7	
1250	48.1	52.7	54.3	55.9	58.2	59.2	61.5	60.8	60.5	52.9	41.5	
1600	48.2	53.3	55.2	56.5	59.0	59.6	60.8	60.6	59.2	51.4	39.3	
2000	49.5	53.9	56.0	58.1	59.8	60.9	61.1	58.8	56.7	48.5	37.5	
2500	50.2	55.5	57.8	60.4	62.7	64.0	64.9	63.3	62.4	52.9	41.2	
3150	48.8	53.9	56.5	59.9	62.4	62.9	64.3	63.2	62.7	52.9	40.8	
4000	46.8	53.2	56.2	59.7	63.2	63.2	64.0	63.3	60.3	50.5	38.3	
5000	44.8	51.4	54.2	58.5	61.4	62.1	62.7	61.4	59.1	49.2	36.7	
6300	43.2	48.9	52.2	56.1	58.8	59.6	61.6	60.1	57.2	47.0	33.2	
8000	39.6	46.2	49.1	53.5	55.9	57.4	58.9	56.8	53.9	42.8	29.1	
10000	37.3	42.9	46.6	51.3	54.2	54.9	55.9	54.9	52.7	41.0	24.5	
12500	33.9	38.4	42.6	49.2	51.2	51.5	53.0	52.4	47.2	34.9	17.2	
16000	28.1	32.0	36.1	41.5	44.5	45.1	45.7	44.5	39.2	24.5	3.4	
20000	23.2	26.2	30.4	35.4	38.0	39.2	39.8	38.5	31.7	14.0		
25000	16.6	19.4	22.9	27.2	29.3	29.7	30.2	26.6	18.1			
31500	8.0	8.6	13.5	16.3	19.1	18.9	16.1	12.7	2.0			
40000				0.5	3.0	1.4						
50000												
63000												
80000												
OVERALL CALCULATED	61.6	63.6	66.1	68.7	71.0	71.6	72.6	71.5	70.0	62.0	53.1	
PNDB	72.9	76.8	79.2	82.1	84.8	85.1	86.1	85.1	83.9	75.2	63.8	

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 NO. 17.7

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. SAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	68.5	72.1	75.9	76.1	75.8	74.5	71.4	68.2	70.9	74.2	76.9							108.0
125	66.3	69.3	74.7	68.9	68.8	68.5	69.4	70.7	72.7	[illegible]	75.9							105.2
160	64.5	66.8	70.9	67.1	68.3	68.0	69.4	71.2	73.2	75.2	76.4							104.6
200	64.3	65.8	72.9	67.9	69.5	70.8	71.7	73.9	75.4	76.9	78.1							106.5
250	67.3	68.6	74.9	70.9	71.5	72.0	73.9	74.2	74.6	75.9	76.4							107.1
315	68.3	70.6	76.4	72.6	72.5	73.5	73.7	74.9	75.6	76.4	76.4							108.0
400	68.8	71.1	75.2	71.2	72.3	73.3	74.2	75.2	75.4	75.4	74.6							107.6
500	68.1	69.1	77.4	70.7	72.1	73.3	73.4	74.4	74.9	75.2	73.6							107.6
630	69.6	71.1	81.4	73.9	74.8	75.8	76.9	77.4	78.4	78.9	75.4							110.8
800	71.9	73.6	83.9	75.2	75.3	76.8	78.7	80.4	79.9	78.7	75.4							111.0
1000	72.4	73.8	85.2	73.9	75.1	77.1	78.7	80.2	81.1	78.2	74.6							111.1
1250	75.9	76.4	86.7	79.5	81.4	83.1	85.9	87.4	88.9	84.5	79.6							117.6
1600	75.4	75.9	87.2	80.0	82.4	84.4	85.4	86.7	87.7	82.7	77.4							117.2
2000	75.4	77.4	88.7	81.5	83.9	85.6	85.9	85.6	84.9	81.2	76.6							117.1
2500	77.1	78.9	91.6	84.6	86.4	88.9	90.6	90.4	92.2	86.3	82.1							121.6
3150	75.6	78.7	90.4	84.3	86.7	87.9	89.3	90.1	92.2	85.7	81.6							121.1
4000	74.0	77.9	90.5	84.8	87.4	87.8	89.0	90.8	90.1	84.4	79.5							120.8
5000	72.2	76.3	89.2	82.8	85.4	86.5	87.7	88.9	89.0	82.7	78.0							119.3
6300	70.8	74.6	87.4	81.6	83.2	85.2	86.9	88.5	88.3	82.1	77.5							118.4
8000	69.4	72.8	85.4	79.9	81.1	83.1	85.7	86.7	86.4	80.1	76.9							116.7
10000	66.9	71.6	84.7	78.9	80.9	82.7	84.0	86.2	86.3	79.8	77.6							116.2
12500	67.1	70.5	83.5	78.3	80.3	82.6	83.8	87.5	85.2	79.0	78.8							116.4
16000	65.4	67.7	80.2	74.6	77.0	79.0	80.9	84.3	82.8	76.1	78.0							113.8
20000	66.1	66.8	69.1	73.8	76.1	77.5	80.1	82.5	83.0	75.6	78.8							113.3
25000	67.4	67.2	68.0	71.6	73.7	75.1	77.6	79.1	79.6	73.0	78.4							111.3
31500	68.9	67.1	68.0	70.9	73.0	74.8	77.3	76.6	79.0	72.9	79.9							112.0
40000	70.6	67.0	68.6	69.4	71.6	72.9	75.5	76.1	76.8	72.0	81.4							112.2
50000	73.9	69.1	71.8	70.1	72.2	71.9	75.2	73.9	73.3	71.8	81.9							113.9
63000	76.3	69.6	73.5	71.0	73.8	72.1	75.4	72.0	69.0	72.5	81.6							116.9
80000	77.6	72.0	74.8	72.1	73.5	72.8	75.9	72.9	67.2	72.7	79.2							121.1
OVERALL MEASURED																		
OVERALL CALCULATED	87.1	88.2	91.2	93.2	95.3	96.7	98.3	99.4	99.9	94.7	93.3							130.8
PNDB	98.8	101.3	104.0	106.8	108.7	109.8	111.3	112.3	113.3	108.1	104.4							

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 46
LOC SCHENECTADY
DATE 11/7/74
RUN 11/2
TAPE
BAR 29.9 HG (1012. N/M2)
TAMB 53. DEG F (285. DEG K)
THET 47. DEG F (281. DEG K)
HACT 6.66 GM/M3 (.00666 KG/M3)
NFA 5564. RPM (583. RAD/SEC)
NFK 5596. RPM (586. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 486. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 230. FT. (70.06 M)																	
VEHICLE R-55																	
CONFIG 48																	
LOC SCHENECTADY																	
DATE 11/7/74																	
RUN 11/2																	
TAPE																	
BAR 29.9 HG (1012. N/M2)																	
TAMB 53. DEG F (285. DEG K)																	
TWET 47. DEG F (281. DEG K)																	
RHACT 6.66 GM/M3 (.00646 KG/M3)																	
NFA 5564. RPM (583. RAD/SEC)																	
NFK 5596. RPM (586. RAD/SEC)																	
NFB 8823. RPM (924. RAD/SEC)																	
NO. OF BLADES 18																	
FAN TIP SPEED 486. FT/SEC																	
50																	
63																	
80																	
100	45.5	49.8	54.2	54.6	54.1	52.5	48.7	44.4	45.6	46.5	45.5						
125	43.1	47.0	52.4	47.2	47.1	46.4	46.7	46.8	47.2	45.9	44.3						
160	41.3	44.4	49.0	45.4	46.5	45.8	46.6	47.2	47.6	47.2	44.5						
200	41.0	43.3	50.9	46.1	47.6	46.5	48.7	49.8	49.7	44.8	46.0						
250	43.9	46.0	52.9	49.0	49.6	49.7	50.9	50.0	48.8	47.6	44.0						
315	44.8	47.9	54.2	50.7	50.5	51.1	50.5	50.6	49.7	48.0	43.8						
400	45.2	48.3	52.9	49.1	50.2	50.8	50.9	50.8	49.3	46.8	41.8						
500	44.4	46.2	55.1	48.5	49.8	50.7	50.1	49.9	48.7	46.4	40.5						
630	45.8	48.1	59.0	51.7	52.5	53.1	53.5	52.8	52.0	48.9	41.9						
800	47.9	50.5	51.4	52.8	52.9	54.0	55.1	55.6	53.3	49.4	41.8						
1000	48.2	50.6	52.5	51.4	52.5	54.1	54.9	55.2	54.4	48.7	40.5						
1250	51.6	53.0	53.8	56.9	58.7	60.0	62.0	62.3	61.9	54.7	45.1						
1600	50.9	52.3	54.2	57.2	59.5	61.1	61.3	61.3	60.4	52.6	42.3						
2000	50.7	53.7	55.5	58.6	60.8	62.1	61.6	60.1	57.4	50.8	41.0						
2500	52.2	55.0	59.3	61.4	63.2	65.2	66.1	64.6	64.4	55.4	46.0						
3150	50.4	54.4	56.7	60.9	63.2	63.9	64.5	63.9	63.9	54.4	44.6						
4000	48.3	53.2	56.5	61.0	63.5	63.4	63.7	64.1	61.2	52.2	41.3						
5000	46.2	51.4	54.9	58.7	61.2	61.9	62.1	61.9	59.8	49.9	39.0						
6300	44.0	48.9	52.4	56.9	58.3	59.8	60.6	60.8	58.0	48.0	38.5						
8000	41.3	45.9	49.3	54.0	55.2	56.6	58.1	57.4	54.4	43.7	32.8						
10000	37.0	43.1	47.0	51.6	53.5	54.6	54.7	54.9	51.9	40.5	28.8						
12500	34.6	39.7	43.6	48.4	50.6	52.2	52.0	53.4	47.4	35.2	23.5						
16000	28.5	32.9	36.5	41.5	43.7	44.8	45.0	45.5	39.4	25.8	11.9						
20000	23.6	26.9	30.6	35.9	38.0	38.2	38.7	37.5	32.2	12.9							
25000	16.8	19.9	22.6	26.9	28.8	28.7	28.4	25.3	18.3								
31500	6.5	9.0	12.4	16.3	18.0	17.9	16.8	11.9	2.2								
40000					1.7	0.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.7	63.8	67.7	69.3	71.2	72.3	72.8	72.4	71.2	63.5	50.1						
PNDB	73.5	76.9	80.4	82.9	85.0	85.8	86.5	85.8	85.0	76.6	67.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5a. (1.02)	6A. (1.19)	7e. (1.36)	8e. (1.53)	9e. (1.71)	10e. (1.88)	11e. (2.06)	12e. (2.24)	13y. (2.42)	14e. (2.60)	15e. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.0	74.0	72.9	71.1	73.0	72.7	73.9	73.6	74.2	77.7	80.3							108.2
VEHICLE RPSS	125	71.7	74.0	74.6	71.6	72.3	73.0	73.2	74.6	75.9	77.9	79.8							106.5
CONFIG 48	160	69.7	71.3	71.4	71.6	72.0	72.0	73.4	75.1	76.9	79.4	80.3							108.4
LOC SCHENECTADY	200	70.3	71.3	72.1	71.8	74.0	75.5	76.4	78.4	78.9	80.7	82.1							110.3
DATE 11/7/74	250	71.7	73.5	75.4	75.3	75.3	76.5	77.9	78.1	78.2	80.2	80.8							110.8
RUN 11/3	315	73.2	75.3	75.4	76.1	76.3	77.2	77.2	78.6	79.2	80.7	80.6							111.3
TAPE	400	73.5	75.3	74.9	74.9	75.8	77.0	77.9	78.1	78.4	79.4	78.6							110.8
BAR 29.9 MG	500	72.5	74.3	72.9	74.4	75.3	76.8	77.7	77.9	77.4	78.7	78.3							110.2
(010 79. N/M2)	630	74.1	75.0	75.6	77.1	77.8	79.0	79.7	80.6	80.4	80.5	78.3							112.3
TAMB 53. DEG F	800	77.8	79.5	79.6	79.1	80.3	80.8	82.7	83.1	81.9	81.4	82.6							114.9
(285. DEG K)	1000	75.6	77.0	77.1	76.6	78.1	80.0	81.4	83.1	82.9	80.2	78.1							113.7
TAET 47. DEG F	1250	75.9	76.6	76.9	78.9	80.8	83.0	85.4	86.6	86.7	82.5	79.3							116.8
(281. DEG K)	1600	82.9	83.6	85.6	86.7	87.9	90.3	90.1	91.4	93.4	85.2	83.1							122.7
HACT 6.06 GM/M3	2000	60.4	61.6	62.4	64.5	86.9	88.1	88.4	89.1	87.9	83.2	80.1							120.1
(.00668 KG/M3)	2500	78.4	60.8	63.4	86.8	88.7	89.6	90.1	90.3	89.7	84.3	81.6							121.6
NFA 6370. RPM	3150	80.1	83.3	85.6	89.3	91.4	92.6	94.3	95.5	94.9	91.2	86.0							125.7
(667. RAD/SEC)	4000	77.8	81.0	84.3	87.5	89.4	90.8	92.0	92.7	92.4	86.4	82.5							123.3
NFK 6407. RPM	5000	77.7	81.5	84.4	88.2	89.8	91.7	92.7	92.9	91.8	86.2	81.9							123.7
(671. RAD/SEC)	6300	75.8	79.3	82.4	85.8	88.0	89.7	90.2	91.7	90.3	84.9	82.5							121.9
NF2 8423. RPM	8000	73.9	78.0	80.7	84.3	86.4	88.1	89.2	90.4	88.7	83.5	83.1							120.6
(924. RAD/SEC)	10000	73.4	77.0	80.4	83.9	85.4	86.9	89.0	89.9	88.8	83.6	83.5							120.3
NO. OF BLADES 15	12500	73.4	76.2	79.0	82.4	84.8	86.3	88.3	89.3	87.5	82.7	84.5							120.0
FAN TIP SPEED	16000	73.4	74.7	76.4	79.1	82.0	83.5	85.9	87.6	84.4	79.3	87.7							118.1
556. FT/SEC	20000	74.8	74.8	76.3	78.0	81.4	82.7	85.1	87.2	84.7	78.9	87.5							118.0
	25000	77.1	76.4	76.5	77.5	79.5	80.8	83.0	83.8	82.6	76.7	86.4							116.8
	31500	78.1	78.5	77.0	77.8	80.0	80.7	82.6	82.9	82.3	75.4	88.6							118.0
	40000	79.8	76.6	78.8	77.6	80.4	80.1	82.5	81.8	79.4	74.5	85.4							116.8
	50000	83.1	78.8	82.5	80.1	82.5	81.4	83.7	81.1	77.0	73.3	88.4							122.2
	63000	86.0	80.1	84.0	81.5	84.3	83.1	100.9	82.0	75.5	72.3	87.3							134.4
	80000	86.8	80.7	84.5	81.6	84.0	83.0	85.2	83.1	75.0	73.7	84.9							130.2
OVERALL MEASURED																			
OVERALL CALCULATED		93.7	93.2	95.5	97.4	99.4	100.7	104.4	102.7	102.0	97.4	99.0							137.9
PNDB		103.0	105.7	107.7	110.6	112.5	113.8	115.1	116.2	115.6	111.8	108.5							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.8	51.8	51.1	49.5	51.4	50.7	51.2	49.9	48.8	50.0	48.9						
125	48.6	51.7	52.8	49.9	53.6	50.9	50.4	50.8	50.5	50.1	48.2						
160	46.5	48.9	49.5	49.9	53.2	49.8	50.6	51.2	51.3	51.5	48.5						
200	46.7	48.8	50.1	50.0	52.1	53.2	53.5	54.3	53.2	52.6	50.0						
250	48.3	51.2	53.3	53.4	53.3	54.1	54.9	53.9	52.3	51.9	48.5						
315	49.7	52.6	53.2	54.1	54.2	54.8	54.0	54.3	53.2	52.2	48.0						
400	49.9	52.5	52.6	52.9	53.6	54.5	54.7	53.7	52.3	50.8	49.7						
500	48.8	51.4	50.5	52.2	53.1	54.1	54.3	53.4	51.2	49.9	45.2						
630	50.2	52.1	53.2	54.9	55.5	56.3	56.2	56.0	54.0	51.4	44.9						
800	53.0	56.4	57.1	56.8	57.9	57.9	58.1	58.3	55.4	52.2	46.8						
1000	51.5	53.8	54.4	54.1	55.5	57.1	57.7	58.2	56.2	50.7	43.9						
1250	51.0	53.2	54.1	56.3	58.1	59.9	61.5	61.5	59.7	52.7	44.8						
1600	53.4	60.0	62.6	63.9	65.0	67.0	66.1	66.0	66.2	55.1	48.0						
2000	55.7	57.8	59.2	61.5	63.8	64.6	64.1	63.5	60.4	52.8	44.5						
2500	53.5	56.9	60.0	63.6	65.4	65.9	65.6	64.5	61.9	53.4	45.7						
3150	54.9	59.1	61.9	65.9	67.9	68.6	69.5	69.4	66.7	56.9	49.1						
4000	52.1	56.4	60.2	63.9	65.4	66.4	66.7	66.0	63.5	54.2	46.3						
5000	51.7	56.1	60.1	64.2	65.7	67.1	67.1	65.9	62.6	53.4	43.0						
6300	48.9	53.6	57.4	61.1	63.1	64.3	63.8	63.8	60.0	50.7	41.5						
8000	45.8	51.1	54.5	54.5	60.4	61.6	61.6	61.1	56.7	47.2	38.8						
10000	43.5	48.5	52.7	56.5	57.9	58.8	59.7	58.6	54.4	44.2	34.8						
12500	43.8	45.3	49.1	52.9	55.1	55.9	56.5	55.1	49.7	38.9	33.2						
16000	36.5	39.9	42.8	45.9	48.7	49.3	50.0	48.7	41.4	28.2	21.6						
20000	32.3	34.8	37.8	40.1	43.2	43.4	43.7	42.2	34.0	18.2	7.2						
25000	26.5	29.1	31.1	32.8	34.5	34.4	33.9	30.0	21.3	2.4							
31500	15.7	18.5	21.4	23.2	25.0	23.8	22.0	18.1	5.5								
40000		2.6	8.1	8.2	10.5	7.6	5.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.1	68.0	70.4	73.1	74.8	75.8	75.9	75.5	73.1	66.1	59.0						
PNDB	77.8	81.4	84.0	87.1	88.9	89.8	90.2	89.9	87.3	80.4	71.6						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 46
LOC SCHENECTADY
DATE 11/7/74
RUN 11/3
TAPE
BAR 29.9 HG (1010. MB/M2)
TAMB 53. DEG F (285. DEG K)
TMET 47. DEG F (281. DEG K)
HACT 6.66 GM/M3 (.00666 KG/M3)
NFA 6370. RPM (667. RAD/SEC)
NFK 6407. RPM (671. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 550. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	70.3	72.3	73.1	72.3	73.8	73.5	73.9	74.4	76.9	81.7	74.6							108.8
125	76.2	79.5	78.4	76.6	78.3	78.2	77.9	78.9	79.9	81.7	74.6							112.5
160	72.2	73.8	73.4	74.1	75.3	75.2	77.2	78.6	80.7	83.2	74.9							111.1
200	72.5	73.3	73.1	74.3	76.8	76.2	78.9	81.1	82.6	84.4	76.1							112.7
250	74.7	76.5	76.1	78.1	78.9	79.5	80.7	81.4	83.4	83.9	75.6							113.6
315	76.0	77.5	77.9	79.1	79.5	80.2	80.7	81.6	82.9	83.6	74.4							114.1
400	76.0	77.5	77.4	77.6	79.3	79.5	80.2	81.6	83.2	82.9	73.4							113.6
500	74.5	76.0	75.4	77.1	81.3	79.5	80.2	80.9	81.4	81.9	72.1							113.2
630	76.1	77.3	77.9	79.6	80.6	81.3	82.2	83.6	83.7	83.2	72.1							114.9
800	79.1	80.3	80.9	81.1	82.6	82.8	84.7	85.6	84.7	83.2	73.4							116.7
1000	77.6	79.0	80.1	79.4	80.6	82.8	84.1	85.6	85.7	82.4	72.4							116.2
1250	79.4	78.8	79.1	80.9	83.3	84.6	87.4	88.1	88.2	84.3	75.1							118.4
1600	80.2	82.1	82.9	84.5	87.9	90.1	90.6	92.1	91.7	86.0	74.9							122.3
2000	83.6	84.8	85.6	89.2	91.6	92.8	93.6	94.6	93.7	88.5	76.6							125.1
2500	81.4	83.6	86.4	89.5	91.4	92.3	92.4	93.6	91.9	86.0	75.1							124.2
3150	81.6	85.4	88.1	91.0	93.2	95.1	95.6	96.3	95.2	88.8	77.4							126.8
4000	81.8	85.6	89.0	92.8	94.6	96.3	96.8	96.7	95.9	89.7	78.8							127.9
5000	81.0	85.0	88.2	91.5	93.6	96.0	95.4	95.9	94.1	88.4	76.5							126.9
6300	79.5	83.1	86.4	89.0	91.7	93.2	93.7	95.0	92.1	87.1	76.1							125.2
8000	77.9	81.7	85.4	88.3	89.9	91.9	93.5	94.2	90.9	86.3	78.2							124.3
10000	76.9	81.6	84.7	87.7	90.0	91.2	93.0	93.9	91.1	86.6	80.1							124.1
12500	76.2	79.8	83.5	86.7	89.1	90.4	91.6	93.0	90.5	86.0	80.8							123.3
16000	75.2	76.7	80.2	83.6	86.1	87.3	89.7	90.6	87.3	82.1	82.8							121.1
20000	76.7	77.1	79.6	82.8	85.4	86.5	88.9	90.8	87.3	82.4	84.2							121.2
25000	78.7	77.8	78.6	81.4	83.8	85.1	87.4	88.7	86.2	80.1	84.3							120.3
31500	80.0	77.1	78.6	80.5	83.6	83.8	85.9	87.2	85.2	79.3	84.7							120.3
40000	81.5	77.3	80.0	79.5	82.3	82.7	84.6	85.2	83.0	77.7	82.3							120.5
50000	84.9	78.8	82.3	80.8	84.0	82.9	84.5	83.4	80.1	75.6	84.0							122.8
63000	87.3	79.4	84.0	81.3	84.9	83.6	84.5	82.8	77.6	73.8	81.6							120.2
80000	88.0	80.4	84.5	82.3	85.0	83.4	84.1	83.0	75.9	73.6	81.7							120.5
OVERALL MEASURED																		
OVERALL CALCULATED	95.4	95.4	98.0	100.5	102.7	104.1	104.9	105.7	104.6	99.5	94.3							137.8
PNDB	105.2	108.2	110.8	113.9	115.8	117.3	117.9	118.4	117.4	112.6	102.2							

RADIAL 17. FT.
(5. M)
VEHICLE R-55
CONFIG 48
LCC SCHENECTADY
DATE 11/7/74
RUN 11/4
TAPE
BAR 29.9 HG
(1010. MB)
TAPE 54. DEG F
(285. DEG K)
WET 47. DEG F
(281. DEG K)
HACT 0.36 GM/M3
(.00034 KG/M3)
NFA 7100. RPM
(750. RAD/SEC)
NFK 7195. RPM
(753. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
625. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.0	50.0	51.4	50.8	52.1	51.5	51.2	50.6	51.6	54.0	43.2						
125	53.1	57.2	58.5	54.9	56.6	56.1	55.1	55.0	54.5	53.9	43.0						
160	49.0	51.4	51.5	52.4	53.5	53.0	54.3	54.7	55.1	55.2	43.0						
200	49.2	53.8	51.1	52.5	54.9	56.0	56.0	57.0	57.2	56.3	44.0						
250	51.3	53.9	56.0	56.2	56.8	57.1	57.6	57.2	57.6	56.6	43.3						
315	52.5	54.9	55.7	57.1	57.5	57.8	57.5	57.3	57.6	55.5	41.8						
400	52.4	54.8	55.1	55.5	56.9	57.0	56.9	57.2	57.1	54.3	40.5						
500	50.8	53.2	53.0	55.0	59.1	56.9	56.8	56.4	55.2	53.1	39.0						
630	52.2	54.3	55.4	57.2	58.2	58.5	58.7	59.0	57.3	54.2	38.7						
800	55.1	56.9	58.3	58.8	60.1	59.9	61.1	60.8	58.1	53.9	39.6						
1000	53.5	55.8	57.4	56.9	58.3	59.0	60.4	60.7	58.0	52.9	38.2						
1250	54.1	55.4	56.3	58.3	60.6	61.4	63.5	63.0	61.2	54.2	40.0						
1600	56.4	58.5	59.9	62.7	65.0	66.0	66.6	66.0	64.5	55.9	39.8						
2000	58.9	61.1	62.4	66.3	68.6	69.3	69.3	69.0	66.2	56.0	41.0						
2530	56.5	59.7	63.0	66.4	68.2	68.7	67.9	67.6	64.2	55.2	39.0						
3150	56.4	61.1	64.4	67.6	69.7	71.1	70.8	70.1	67.0	57.4	40.4						
4000	56.1	60.9	64.9	68.9	70.7	71.9	71.5	70.8	67.8	57.5	40.6						
5030	55.3	60.1	63.9	67.4	69.4	71.3	69.8	68.9	64.8	55.7	37.6						
6300	52.7	57.4	61.4	65.1	66.8	67.8	67.3	67.8	61.7	53.8	35.8						
8030	49.8	54.9	59.3	62.5	63.9	65.3	65.9	64.9	58.9	50.8	33.9						
10050	47.0	53.1	57.0	60.3	62.5	63.1	63.7	62.7	56.7	47.2	31.3						
12530	43.6	48.9	53.6	57.2	59.4	59.9	59.8	58.9	52.8	42.2	28.8						
16060	38.3	41.9	46.8	50.5	52.7	53.1	53.8	51.8	44.0	31.8	16.7						
20060	34.2	37.2	41.2	44.8	47.3	47.2	47.6	45.8	36.5	21.8	3.8						
25030	28.1	29.7	33.2	36.7	38.8	38.7	38.2	34.8	24.9	5.7							
31530	17.6	19.1	23.8	25.9	28.6	27.9	25.4	20.5	8.4								
40030	1.5	3.3	9.3	10.1	12.4	10.3	7.2										
50080																	
63080																	
80080																	
OVERALL CALCULATED	67.1	70.4	73.1	76.2	78.1	79.2	78.8	78.2	78.1	68.2	53.8						
PNDB	79.9	83.9	86.9	90.2	92.8	93.6	92.8	91.9	88.8	80.9	64.8						

SIDELINE 200. FT.
(60.96 M)
VEHICLE R-95
CONFIG 46
LOC SCHENECTADY
DATE 11/7/74
RUN 11/4
TAPE
BAR 29.9 IN HG
(81079. N/M2)
TAMB 54. DEG F
(285. DEG K)
TWET 47. DEG F
(281. DEG K)
HACT 6.3G GM/M3
(.00836 KG/M3)
NFA 7160. RPM
(750. RAD/SEC)
NFK 7195. RPM
(753. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
625. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.69)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.7	73.3	84.1	74.1	75.8	76.0	77.4	77.4	80.2	85.4	77.9							113.3
125	77.2	78.3	85.4	79.3	81.8	82.5	82.4	83.1	84.9	86.4	78.4							118.7
160	75.2	77.3	84.6	77.6	78.8	79.2	80.7	81.9	84.2	86.7	77.9							115.4
200	75.8	75.5	90.6	77.3	79.3	81.2	82.2	84.1	85.2	88.2	79.1							116.3
250	77.7	79.5	83.1	81.1	82.3	83.0	85.2	86.1	87.7	88.9	79.6							118.1
315	76.0	80.6	87.6	82.1	82.5	83.7	83.9	85.1	86.7	87.9	78.1							118.4
400	78.8	80.0	80.6	80.9	81.5	82.5	85.4	84.9	85.2	86.7	77.1							116.9
500	77.0	78.3	78.6	80.1	81.0	82.0	83.9	84.4	84.4	85.4	76.8							115.9
630	78.6	79.5	80.4	82.4	83.1	84.0	85.4	86.4	86.7	86.9	76.4							117.7
800	81.1	81.8	82.9	83.6	84.1	85.3	86.7	87.9	88.9	85.9	77.9							118.8
1000	80.3	81.8	82.6	82.4	83.6	85.3	87.1	88.4	88.2	84.9	76.6							118.9
1250	83.4	81.8	81.4	83.4	85.3	87.3	88.9	90.6	89.7	86.2	78.9							120.5
1600	82.4	83.1	83.9	84.7	88.4	89.6	90.9	91.9	90.7	88.2	77.6							122.3
2000	87.6	91.8	91.6	95.2	96.1	96.3	99.1	100.9	97.2	92.3	80.4							130.4
2500	85.6	86.9	89.9	92.8	94.2	95.1	95.9	96.8	93.2	88.8	80.4							127.2
3150	85.1	87.6	90.3	93.5	95.4	96.3	96.6	97.6	94.4	90.3	80.4							128.2
4000	85.5	89.3	92.3	96.3	97.9	98.8	99.8	99.7	97.8	94.2	83.0							130.8
5000	84.2	87.8	91.2	94.7	96.1	97.2	97.9	98.2	94.3	89.9	82.8							128.8
6300	82.8	87.3	90.2	94.1	95.5	97.0	97.7	98.5	94.1	89.9	82.8							128.8
8000	81.4	85.7	89.4	92.1	93.4	95.1	95.7	97.2	92.8	88.8	84.7							127.3
10000	80.4	84.8	89.9	91.9	93.7	95.0	96.8	96.9	92.8	88.1	85.3							127.5
12500	79.7	84.9	87.3	90.9	92.9	94.1	96.4	96.8	92.5	88.5	86.3							127.2
16000	77.7	81.0	83.9	87.1	89.6	91.6	93.0	93.9	89.3	85.1	87.6							124.5
20000	74.2	80.4	83.6	86.3	88.7	91.0	93.2	93.8	89.4	84.7	88.7							124.7
25000	80.0	79.7	82.3	85.4	88.3	89.6	92.4	93.2	89.7	84.8	88.8							124.7
31500	81.9	79.9	81.1	84.8	86.6	87.8	90.4	91.2	87.9	82.5	88.2							123.9
40000	83.2	79.3	81.0	82.2	85.5	86.9	88.4	88.7	85.5	80.9	88.3							123.7
50000	86.2	80.1	83.0	81.6	85.5	85.2	87.5	86.1	82.8	78.6	90.0							125.1
63000	88.8	80.6	84.3	82.0	85.9	84.4	87.0	83.5	79.8	75.6	88.9							127.8
80000	89.0	81.4	84.7	82.1	86.0	84.2	86.6	83.8	78.6	74.6	87.3							131.7
OVERALL MEASURED																		
OVERALL CALCULATED	97.7	98.9	101.8	104.1	105.7	107.0	108.1	108.9	105.7	102.5	99.3							140.5
PNDB	108.6	111.7	114.6	117.3	118.8	119.9	120.9	121.3	119.2	116.0	106.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	47.7	51.3	62.4	52.5	54.1	54.8	54.7	53.6	54.8	57.8	46.5						
VEHICLE ROSS 125	54.1	56.8	63.5	57.7	60.1	60.4	59.6	59.3	59.5	58.6	46.8						
CONFIG 4d 160	52.0	54.6	62.7	55.9	57.3	57.0	57.8	57.9	58.6	58.7	48.0						
LOC SCHENECTADY 200	51.7	53.3	60.6	55.5	57.4	59.0	59.2	60.0	59.5	60.1	47.0						
DATE 11/7/74 250	54.3	56.9	61.8	59.2	60.3	60.0	62.1	61.9	61.8	60.6	47.3						
RUN 11/5 315	55.5	58.1	65.5	60.1	60.8	61.3	60.8	60.8	60.7	59.5	45.5						
TAPE 400	55.2	57.3	58.4	58.9	59.4	60.8	62.2	60.5	59.1	58.1	44.3						
BAR 29.9 MG 500	53.3	55.4	56.3	58.0	58.8	59.4	60.6	59.9	58.2	56.6	43.5						
(101279. N/M2) 630	54.7	56.6	57.9	60.1	60.7	61.3	61.9	61.7	60.3	58.9	42.9						
TAMB 54. DEG F 800	57.1	58.7	60.3	61.3	61.6	62.4	63.1	63.1	60.4	58.7	44.1						
(285. DEG K) 1000	55.2	58.5	59.9	59.9	61.8	62.3	63.4	63.4	61.4	55.4	42.8						
TDET 47. DEG F 1250	56.1	58.4	58.6	60.5	62.6	64.2	65.8	65.5	62.7	58.4	44.3						
(281. DEG K) 1600	57.9	59.5	60.9	63.9	65.5	66.3	66.8	66.5	63.5	58.1	42.6						
HACT 6.3A GM/M3 2000	62.9	64.1	63.4	72.3	73.1	74.8	74.8	75.3	69.7	61.8	44.8						
(.00635 LB/M3) 2500	60.7	62.9	65.5	69.6	70.9	71.4	71.4	71.8	65.4	57.9	44.2						
NFA 7977. RPM 3150	59.9	63.4	66.7	70.1	71.9	72.4	71.8	71.4	66.2	58.9	43.4						
(835. RAD/SEC) 4000	59.8	64.6	68.2	72.4	74.0	74.4	74.5	73.8	69.0	62.8	44.8						
NFK 8016. RPM 5000	54.2	62.8	66.9	70.7	71.9	72.6	72.4	71.1	65.1	57.2	43.1						
(839. RAD/SEC) 6300	55.8	61.6	65.1	69.3	70.6	71.6	71.3	70.5	63.7	55.7	41.8						
NF2 8823. RPM 8000	53.3	58.9	63.3	66.3	67.4	68.6	68.1	67.9	60.9	52.5	40.4						
(924. RAD/SEC) 10000	50.5	56.3	61.3	64.6	66.2	66.8	67.4	65.7	58.5	48.7	38.6						
NO. OF BLADES 15 12500	47.1	53.1	57.4	61.4	63.2	63.7	64.5	62.7	54.8	44.7	31.8						
FAN TIP SPEED 16000	40.8	46.2	50.3	54.8	56.2	57.3	57.8	55.8	46.8	34.8	21.4						
696. FT/SEC 20000	35.7	40.4	45.2	48.4	50.6	51.7	51.8	48.8	38.8	24.8	8.3						
25000	29.4	32.4	36.8	40.7	43.3	43.2	43.2	39.3	28.4	10.2							
31500	18.8	21.8	25.3	29.4	31.6	31.8	29.8	24.5	11.1								
40000	3.2	5.3	10.3	12.9	15.6	13.5	11.8	2.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	78.3	74.8	77.6	79.8	81.1	81.9	81.9	81.4	76.8	71.5	57.7						
PNDB	83.2	87.4	90.7	93.6	95.8	95.6	95.8	94.9	90.7	84.4	68.9						

ORIGINAL PAGE IS
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

DATE - MONTH 11 DAY 22 HR. 17.7

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.69)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	78.7	79.8	74.4	74.8	75.5	76.2	76.7	77.1	80.4	85.2	88.8							113.7
125	79.8	80.3	77.4	79.6	82.9	82.5	82.2	83.6	84.9	86.2	88.8							118.7
160	75.2	82.8	76.6	78.1	78.5	79.2	80.4	82.1	84.4	87.2	89.8							116.8
200	75.8	82.8	78.1	77.3	79.3	81.8	81.9	84.1	84.9	88.2	89.8							116.9
250	77.5	84.8	81.1	81.3	82.3	83.7	85.9	87.1	87.7	89.2	90.3							119.1
315	79.8	85.5	81.1	81.9	82.8	83.2	83.9	85.1	86.4	87.9	88.1							119.3
400	78.5	83.3	79.9	80.4	81.5	82.5	83.9	84.6	85.2	86.4	86.8							118.4
500	77.8	79.3	78.1	79.9	81.8	82.3	83.4	84.1	84.7	85.4	85.3							116.2
630	78.3	80.8	80.4	82.1	83.1	84.3	85.4	86.6	86.7	86.6	86.8							117.9
800	81.3	83.3	82.9	83.9	84.3	85.8	86.7	87.6	87.4	85.7	84.6							119.1
1000	80.3	82.8	82.6	82.1	83.1	85.0	86.9	88.1	87.9	84.7	83.1							118.8
1250	80.6	82.6	81.1	83.7	85.6	88.1	89.4	91.1	90.4	88.2	83.3							121.0
1600	81.9	82.8	83.9	86.5	88.1	89.8	91.4	91.9	90.7	85.5	82.6							122.4
2000	87.4	91.1	91.1	94.5	95.9	98.1	99.4	99.9	96.9	91.8	87.8							130.1
2500	84.9	86.4	88.9	92.8	94.4	95.3	95.9	97.1	93.9	88.5	85.1							127.3
3150	83.8	87.9	90.8	93.5	96.2	96.1	96.8	97.8	94.2	90.8	85.8							128.3
4000	85.8	89.1	92.5	96.5	97.9	99.8	100.0	100.2	98.1	94.2	90.2							131.1
5000	84.2	87.8	91.2	94.5	96.4	97.2	98.2	98.2	94.6	90.2	85.4							129.1
6300	83.8	87.6	90.4	94.1	95.7	97.8	97.7	96.5	94.6	89.4	85.3							128.9
8000	83.9	85.7	89.4	92.3	93.4	95.6	96.2	97.7	93.2	84.6	84.1							127.6
10000	84.4	85.6	88.7	91.9	93.7	95.2	96.5	96.9	93.3	88.9	83.8							127.5
12500	79.7	84.3	88.8	90.7	93.1	94.1	96.6	96.8	93.8	88.5	83.3							127.3
16000	78.7	80.7	83.9	87.1	89.3	91.6	93.8	93.9	89.6	85.4	80.3							124.3
20000	76.9	80.4	83.6	86.5	88.9	91.8	93.4	94.8	90.1	85.2	79.6							124.8
25000	77.5	79.5	82.1	84.9	88.1	89.4	92.4	93.4	90.2	85.1	79.8							124.5
31500	74.8	79.1	81.1	84.8	86.6	88.1	90.2	91.2	88.2	83.8	76.2							123.7
40000	80.8	78.8	80.7	82.2	84.3	86.2	87.9	88.7	86.8	81.4	72.3							123.8
50000	82.9	79.3	81.8	81.8	83.3	84.7	86.2	86.4	82.6	79.6	72.2							123.5
63000	85.5	79.6	83.0	81.8	83.6	83.9	84.2	83.5	78.1	75.8	72.3							123.4
80000	86.2	80.1	83.5	82.1	83.8	83.7	83.4	83.0	75.2	74.1	72.7							123.3
OVERALL MEASURED																		
OVERALL CALCULATED	96.8	99.6	101.0	104.1	105.8	107.1	108.2	108.9	106.6	102.6	100.4							140.2
PNDB	108.5	112.2	114.1	117.4	118.9	120.8	121.8	121.6	119.4	115.9	112.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	59. (1.02)	66. (1.19)	76. (1.36)	83. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.7	57.5	52.6	53.3	53.9	54.2	54.8	53.4	55.1	57.5	57.2						
125	55.9	54.8	55.5	57.9	63.3	60.4	59.4	56.8	59.5	58.4	57.2						
160	52.3	60.4	54.7	56.4	56.7	57.8	57.6	58.2	58.8	59.2	56.7						
200	51.7	60.3	54.1	55.5	57.4	58.7	59.8	60.8	59.2	60.1	57.5						
250	54.1	61.4	59.8	59.4	60.3	61.4	62.9	62.9	61.8	60.9	58.8						
315	55.5	62.9	59.8	59.9	60.7	60.8	60.8	60.8	60.5	59.5	55.5						
400	54.9	60.5	57.6	58.3	59.4	60.8	60.7	60.2	59.1	57.8	54.8						
500	53.3	56.4	55.8	57.7	58.8	59.6	60.1	59.6	58.4	56.6	52.2						
630	54.5	57.3	57.9	59.9	60.7	61.5	61.9	62.0	60.3	58.9	51.4						
800	57.4	60.2	60.3	61.5	61.9	62.2	63.1	62.8	60.8	58.4	50.8						
1000	56.2	58.8	59.9	59.6	60.5	62.1	63.2	63.2	61.2	55.2	48.9						
1250	56.3	59.2	58.3	61.1	62.9	64.9	65.5	66.8	63.5	56.6	48.8						
1600	57.4	59.3	60.9	63.7	65.3	66.5	67.3	66.5	63.5	55.4	47.5						
2000	62.7	67.3	67.9	71.5	72.8	74.9	75.1	74.3	69.4	61.3	52.2						
2500	60.8	62.4	65.5	69.6	71.2	71.7	71.4	71.3	66.2	57.7	48.9						
3150	55.6	63.6	67.2	70.1	72.7	72.1	72.8	71.6	66.8	58.6	48.8						
4000	60.1	64.4	68.6	72.7	74.8	74.6	74.7	73.5	69.3	62.8	52.8						
5000	58.2	62.8	66.9	70.4	72.2	72.8	72.6	71.1	65.3	57.5	46.5						
6300	56.2	61.9	65.4	69.1	73.8	71.6	71.3	70.5	64.2	55.2	44.2						
8000	52.8	58.9	63.3	66.5	67.4	69.1	68.6	68.4	61.2	52.3	39.8						
10000	50.5	57.1	61.8	64.6	66.2	67.1	67.2	65.7	59.8	49.5	38.8						
12500	47.1	53.4	58.1	61.2	63.4	63.7	64.8	62.7	55.3	44.7	27.9						
16000	39.8	45.9	50.3	54.8	56.8	57.3	57.8	55.8	46.2	34.3	14.1						
20000	34.4	40.4	45.2	48.6	50.8	51.7	52.1	49.8	39.3	24.5							
25000	26.9	32.2	36.7	40.2	43.1	43.8	43.2	39.6	28.9	10.7							
31500	16.4	21.1	25.5	29.4	31.6	31.2	29.7	24.5	11.4								
40000		4.8	10.8	12.9	14.4	13.8	10.5	2.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	70.1	75.2	76.3	79.7	81.2	82.8	82.1	81.3	76.9	71.4	66.8						
PNDB	83.1	87.8	88.2	93.7	95.1	95.8	95.9	95.1	90.9	84.3	75.9						

SIDELINE 200. FT. (60.96 M)
VEHICLE BOSS
CONFIG 48
LCC SCHEDULED
DATE 11/7/78
RUN 11/6
TAPE
BAR 29.9 IN HG (81879. N/M2)
TAMB 54. DEG F (285. DEG K)
TWET 47. DEG F (281. DEG K)
HACT 6.3% GM/M3 (.00036 LB/M3)
NFA 7073. RPM (635. RAD/SEC)
NFR 6612. RPM (639. RAD/SEC)
NFD 6823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 600. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	139. (2.42)	149. (2.60)	159. (2.78)	0. (0.)	0. (10.)	0. (10.)	0. (10.)	0. (10.)	0. (10.)	PWL
50																		
63																		
80																		
100	71.3	72.3	75.7	76.3	78.3	75.0	71.4	67.7	71.2	74.2	70.1							108.4
125	67.8	71.3	69.9	69.1	76.8	70.0	69.7	70.2	72.4	73.4	69.9							105.8
160	65.8	66.6	66.4	68.8	79.5	70.0	69.7	71.2	73.2	75.2	70.4							106.9
200	65.8	66.3	66.4	69.8	80.3	72.5	72.4	74.2	75.4	77.2	71.6							108.2
250	66.8	68.3	69.9	73.1	81.5	73.7	73.9	74.2	74.9	75.4	71.9							109.1
315	68.8	70.8	71.7	72.5	82.3	74.0	74.2	74.9	75.4	76.4	72.1							109.9
400	68.8	70.5	70.7	72.4	79.8	74.5	75.4	75.4	75.6	75.4	73.4							108.9
500	67.6	68.6	68.9	72.4	78.3	74.8	73.9	74.2	74.9	74.9	72.8							107.9
630	69.9	70.9	71.4	74.6	77.3	76.5	76.9	77.7	78.4	78.2	74.9							109.9
800	71.6	72.6	73.7	77.6	79.1	79.5	78.7	79.9	79.6	78.7	76.6							111.8
1000	71.6	73.8	73.9	74.6	75.8	77.5	78.9	80.2	81.1	78.2	76.9							111.3
1250	75.6	75.9	76.2	79.2	81.8	83.3	85.2	87.4	86.4	84.5	78.6							117.4
1600	74.9	76.6	77.2	80.5	81.9	83.8	85.9	86.7	87.4	83.2	78.4							117.2
2000	76.1	77.1	78.7	82.0	83.9	85.6	85.6	85.4	84.9	81.7	80.4							117.2
2500	77.1	79.9	81.1	85.0	86.4	88.6	90.1	90.1	92.2	86.0	79.6							121.4
3150	75.6	78.4	80.6	84.3	86.7	87.8	89.3	90.1	91.9	86.0	80.6							121.0
4000	74.3	77.6	80.8	84.5	87.1	88.8	89.8	90.3	90.1	84.2	82.8							120.7
5000	73.0	76.1	79.2	83.2	85.3	86.5	87.7	89.7	88.8	83.2	83.5							119.5
6300	71.5	74.9	77.4	81.3	83.2	84.7	87.4	88.5	88.0	82.1	84.3							118.5
8000	69.1	72.5	75.7	80.1	81.6	83.6	85.5	86.4	86.4	80.5	85.4							117.0
10000	67.9	71.6	74.7	79.1	81.2	82.9	84.2	85.7	86.5	80.6	85.8							116.6
12500	67.6	70.8	73.3	78.1	80.6	82.5	83.8	87.5	85.2	80.2	87.0							117.0
16000	66.1	67.5	70.1	75.5	78.2	79.7	81.1	84.1	83.5	78.5	88.0							115.3
20000	67.1	67.0	69.3	75.2	78.5	78.6	80.6	82.9	82.4	78.8	89.3							115.8
25000	68.8	67.4	68.7	75.5	77.9	77.2	78.0	79.1	79.6	78.2	87.9							114.4
31500	70.4	67.0	68.5	76.0	78.7	77.9	77.5	78.3	79.0	79.6	87.3							115.6
40000	72.0	67.9	70.3	77.2	80.3	78.2	76.4	76.3	76.7	72.4	86.1							116.0
50000	75.7	69.4	73.1	80.1	83.3	80.7	76.8	74.5	73.4	72.7	84.8							119.0
63000	78.1	70.7	75.1	81.6	85.4	82.9	78.0	72.6	72.6	73.6	86.2							123.4
80000	79.8	71.9	75.8	82.8	86.7	83.4	77.6	73.8	69.1	74.1	86.4							127.6
OVERALL MEASURED																		
OVERALL CALCULATED	87.7	88.1	90.2	94.3	97.1	97.3	98.3	99.4	99.8	95.1	96.3							132.9
PNDB	98.9	101.1	103.2	106.7	109.6	110.0	111.2	112.1	113.1	108.2	108.9							

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 48
LOC SCHENECTADY
DATE 11/7/74
RUN 11/7
TAPE
BAR 29.9 IN HG (01079. N/M2)
TAMB 54. DEG F (285. DEG K)
TWET 28. DEG F (282. DEG K)
WACT 6.96 GM/M3 (.00696 KG/M3)
NFA 5567. RPM (583. RAD/SEC)
NFK 5594. RPM (586. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 486. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 17.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	48.2	50.1	53.9	54.5	56.6	53.0	48.7	43.9	45.8	46.5	38.7						
VEHICLE R-55 125	44.6	49.3	48.1	47.4	55.1	47.9	46.9	46.3	47.0	45.6	38.3						
CONFIG 48 160	42.6	44.2	44.5	47.1	57.7	47.8	46.8	47.2	47.6	47.2	38.5						
LOC SCHENECTADY 200	42.5	43.8	44.4	48.0	58.4	50.2	49.5	50.1	49.7	49.1	39.5						
DATE 11/7/74 250	43.4	45.7	47.8	51.2	59.5	51.4	50.9	50.0	49.1	47.1	39.5						
RUN 11/7 315	45.3	48.2	49.5	50.9	60.2	51.5	51.0	50.6	49.7	48.0	39.5						
TAPE 400	45.2	48.1	48.4	50.3	57.6	52.0	52.2	51.0	49.6	46.8	40.5						
BAR 29.9 HG 500	43.9	45.7	46.6	50.2	56.1	52.1	50.6	49.7	48.7	46.1	39.5						
(101279. N/M2) 630	46.0	47.9	49.0	52.4	55.0	53.8	53.5	53.0	52.0	49.2	41.4						
TAMB 54. DEG F 800	47.6	49.5	51.1	55.3	56.6	56.7	55.1	55.1	53.1	49.4	42.8						
(285. DEG K) 1000	47.5	50.6	51.2	52.1	53.2	54.6	55.2	55.2	54.4	48.7	42.7						
TWET 48. DEG F 1250	51.4	52.5	53.3	56.6	59.1	60.2	61.3	62.3	61.4	54.7	44.1						
(282. DEG K) 1600	50.4	53.1	54.2	57.7	59.3	60.5	61.8	61.3	60.2	53.1	43.3						
HACT 6.96 GM/M3 2000	51.4	53.4	55.5	59.0	60.8	62.1	61.4	59.8	57.4	51.3	44.8						
(.00696 KG/M3) 2500	52.2	55.0	57.8	61.9	63.2	64.9	65.6	64.3	64.4	55.2	43.5						
NFA 5567. RPM 3150	50.4	54.2	57.0	60.9	63.2	63.9	64.5	63.9	63.7	54.6	43.6						
(583. RAD/SEC) 4000	48.6	52.9	56.7	60.7	63.2	63.6	63.7	63.5	61.2	52.0	44.6						
NFK 5594. RPM 5030	47.0	51.1	54.9	59.2	61.2	61.8	62.1	62.7	59.5	50.4	44.5						
(586. RAD/SEC) 6300	44.7	49.2	52.4	56.6	58.3	59.3	61.1	60.6	57.7	48.0	43.3						
NFD 8823. RPM 8000	41.0	45.6	49.5	54.2	55.6	57.1	57.9	57.1	54.4	44.2	41.1						
(924. RAD/SEC) 10030	38.0	43.1	47.0	51.8	53.7	54.8	54.9	54.4	52.1	41.2	37.0						
NO. OF BLADES 15 12500	35.1	39.9	43.3	48.6	50.9	52.1	52.0	53.4	47.4	36.4	31.7						
FAN TIP SPEED 16000	29.3	32.7	36.5	42.4	44.9	45.5	45.2	45.2	40.1	27.4	21.8						
486. FT/SEC 20000	24.6	27.1	30.8	37.3	40.4	39.4	39.2	37.9	31.6	17.9	8.9						
25000	18.3	20.1	23.3	30.8	32.9	30.8	28.9	25.2	18.2	3.8							
31500	7.9	9.0	12.9	21.4	23.7	21.0	17.0	11.6	2.2								
40000				7.9	10.4	5.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.9	63.7	66.0	69.6	72.5	72.3	72.7	72.3	71.0	63.6	55.3						
PNDB	73.7	76.8	79.4	83.1	85.9	85.9	86.3	85.7	84.8	76.8	68.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PREC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.65)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	76.3	78.1	80.9	81.9	81.3	79.3	74.7	70.9	71.9	75.9	76.3							112.8
VEHICLE RUSS	125	67.3	67.6	70.9	69.1	72.3	69.8	69.9	71.2	72.7	74.9	75.1							105.2
CONFIG 5	160	65.8	66.8	67.4	67.9	69.3	69.8	70.9	71.9	74.4	75.9	76.6							105.2
LOC SCHENECTADY	200	66.3	66.8	67.4	68.6	70.9	72.3	73.2	75.4	76.4	78.7	78.8							107.4
DATE 11/19/74	250	67.8	68.6	71.2	71.6	72.3	72.8	73.9	74.4	75.4	76.9	76.6							107.2
RUN 20/1	315	68.8	70.6	71.4	72.1	72.8	73.5	73.9	74.7	75.7	77.2	76.3							107.6
TAPE	400	67.8	69.6	70.9	71.7	73.0	73.3	73.9	75.4	76.2	75.9	74.6							107.3
BAR 29.7 HG	500	66.8	68.6	69.2	70.9	72.6	73.3	74.2	74.9	74.7	75.4	73.8							106.7
(100428. N/M2)	630	68.1	70.4	71.7	73.7	74.8	76.1	76.9	77.7	78.4	78.0	74.6							109.4
TAMB 58. DEG F	800	72.6	72.1	73.2	74.4	75.3	76.6	77.9	79.2	79.2	78.7	74.8							110.3
(288. DEG K)	1000	68.9	71.1	72.9	73.4	75.6	76.8	78.2	79.7	80.4	77.9	74.1							110.4
T-ET 52. DEG F	1250	71.9	76.1	77.4	79.2	81.9	84.1	85.7	86.7	87.4	84.2	78.6							117.2
(284. DEG K)	1600	72.4	76.6	78.9	81.3	83.9	85.4	85.6	86.7	86.9	83.2	77.3							117.6
HACT 8.30 GM/M3	2000	73.4	77.1	79.2	82.5	84.4	85.6	86.1	86.1	86.2	82.0	77.1							117.7
(.00830 KG/M3)	2500	75.4	78.6	80.6	83.8	86.7	88.6	90.6	89.9	91.2	85.0	80.1							121.1
NFA 5622. RPM	3150	75.6	79.1	81.6	84.3	87.7	89.6	91.1	90.8	91.9	85.0	80.3							121.9
(589. RAD/SEC)	4000	74.3	78.1	81.0	85.3	89.1	90.5	90.2	91.5	90.8	85.4	80.0							122.2
NFK 5627. RPM	5000	71.5	76.0	79.7	83.3	86.1	87.0	88.7	89.4	89.3	83.6	78.1							119.9
(589. RAD/SEC)	6300	70.5	74.6	78.4	82.4	84.7	86.7	87.6	89.0	89.0	83.1	77.2							119.3
NFD 8823. RPM	8000	68.8	74.0	76.9	81.1	83.3	84.6	86.9	87.9	87.8	82.2	77.0							118.2
(924. RAD/SEC)	10000	67.6	71.0	75.4	79.6	81.8	83.9	85.6	86.6	86.2	81.7	76.9							117.5
NO. OF BLADES 15	12500	67.8	70.2	73.7	78.3	81.0	83.0	84.7	86.7	88.1	79.8	76.1							117.1
FAN TIP SPEED	16000	64.0	67.1	70.5	74.9	77.6	80.4	81.8	83.7	87.4	76.9	74.6							115.3
491. FT/SEC	20000	64.4	66.1	69.6	74.1	76.9	79.0	81.7	83.8	87.8	78.4	73.8							115.0
	25000	65.9	66.4	68.3	73.1	75.7	77.3	79.3	81.1	85.9	75.8	72.9							114.3
	31500	64.4	65.5	67.2	71.6	74.0	77.2	78.5	80.3	83.5	74.1	71.5							113.8
	40000	65.2	64.8	66.7	70.0	72.0	74.3	76.1	77.8	81.5	72.2	66.0							112.9
	50000	67.7	66.3	68.3	69.1	70.3	72.4	74.7	74.4	78.3	70.6	65.9							112.5
	63000	70.5	68.2	70.8	71.0	72.6	73.9	75.8	73.8	77.0	71.5	68.5							115.7
	80000	74.3	72.5	74.8	75.3	76.7	78.7	79.8	79.1	79.1	75.8	72.1							122.8
OVERALL MEASURED																			
OVERALL CALCULATED		85.6	88.3	91.1	93.8	96.4	97.9	99.1	99.8	100.7	98.1	91.1							131.7
	PNLB	98.1	101.5	104.6	107.1	110.1	111.5	112.3	112.8	113.3	108.2	103.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	53.2	55.8	59.2	60.3	59.6	57.2	52.0	47.1	46.6	48.3	44.9						
VEHICLE R-55	125	44.1	45.3	49.1	47.5	50.6	47.7	47.2	47.3	47.2	47.1	43.5						
CONFIG 5	160	42.6	44.4	45.5	46.2	47.5	47.6	48.1	47.9	48.8	48.0	44.7						
LOC SCHENECTADY	200	43.0	44.3	45.4	46.8	48.9	50.0	50.2	51.3	50.7	50.6	46.7						
DATE 11/18/74	250	44.4	46.0	49.1	49.7	50.3	50.4	50.9	50.2	49.6	48.6	44.2						
RUN 20/1	315	45.3	47.9	49.2	50.2	50.7	51.1	50.8	50.4	49.7	48.7	43.7						
TAPE	400	44.2	46.8	48.7	49.6	50.9	50.8	50.7	51.0	50.1	47.3	41.7						
BAR 29.7 HG	500	43.1	45.7	46.8	48.8	50.3	50.7	50.8	50.4	48.4	46.6	40.7						
(100428. N/M2)	630	44.3	47.4	49.2	51.4	52.5	53.3	53.5	53.0	52.0	48.9	41.1						
TAMB 58. DEG F	800	46.6	49.0	50.6	52.1	52.9	53.7	54.3	54.4	52.6	49.4	41.0						
(288. DEG K)	1000	44.8	47.9	50.2	50.9	53.0	53.6	54.4	54.7	53.7	48.4	39.9						
TWET 52. DEG F	1250	47.6	52.7	54.6	56.6	59.2	61.0	61.8	61.5	60.5	54.4	44.0						
(284. DEG K)	1600	47.9	53.1	55.9	58.5	61.0	62.1	61.6	61.3	59.7	53.1	42.3						
HACT 8.33 GM/M3	2000	48.7	53.4	56.0	59.6	61.3	62.1	61.8	60.6	58.7	51.5	41.5						
(.00830 KG/M3)	2500	50.5	54.7	57.3	60.7	63.4	64.9	66.1	64.1	63.4	54.2	43.9						
NFA 5622. RPM	3150	50.4	54.9	58.0	60.9	64.2	65.8	66.3	64.7	63.7	53.6	43.3						
(589. RAD/SEC)	4000	48.6	53.4	59.0	61.5	65.2	66.1	65.0	64.8	62.0	53.2	41.8						
NFK 5627. RPM	5000	45.5	51.1	55.4	59.2	61.9	62.3	63.1	62.4	60.0	50.9	39.2						
(589. RAD/SEC)	6300	43.7	48.9	53.3	57.6	59.8	61.3	61.3	61.0	58.7	48.9	36.2						
NFD 8823. RPM	8000	40.7	47.1	50.7	55.2	57.4	58.3	59.3	58.6	55.9	45.9	32.8						
(924. RAD/SEC)	10000	37.7	42.5	47.7	52.2	54.4	55.8	56.3	55.3	53.8	42.4	28.2						
NO. OF BLADES 15	12500	35.2	39.3	43.7	48.8	51.3	52.6	52.9	52.5	50.3	38.0	20.8						
FAN TIP SPEED	16000	27.1	32.3	36.9	41.8	44.3	46.1	45.8	44.8	44.0	25.8	8.4						
491. FT/SEC	20000	21.9	26.2	31.2	36.2	38.8	39.7	40.3	38.8	37.0	15.7							
	25000	15.3	19.1	22.9	28.4	30.7	30.9	30.2	27.3	24.6	0.6							
	31500	1.9	7.4	11.8	17.0	19.0	20.3	18.0	13.6	6.7								
	40000				0.6	2.1	1.8											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		60.2	64.1	67.3	69.9	72.4	73.4	73.5	72.6	71.0	63.7	55.7						
PNDB		72.7	77.1	80.7	83.4	86.3	87.2	87.4	86.3	84.9	76.6	68.7						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.65)	158. (2.76)	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.0	70.3	69.7	70.6	73.8	76.0	76.9	76.2	75.7	78.7	81.1							109.1
VEHICLE ROSS	125	68.5	70.8	73.7	71.9	74.3	73.5	73.9	75.4	76.4	78.4	80.3							108.7
CONFIG 5	160	68.8	70.8	70.9	71.9	73.0	72.8	73.9	75.9	77.9	79.9	80.8							108.9
LOC SCHENECTADY	200	68.3	69.1	69.9	70.9	73.8	75.3	76.2	78.2	79.4	81.4	82.6							110.3
DATE 11/18/74	250	70.3	72.1	73.9	74.9	75.3	75.8	77.7	77.9	79.2	80.7	81.1							110.7
RUN 20/2	315	72.8	73.8	74.9	75.9	76.0	77.0	77.9	78.7	79.4	80.7	80.6							111.3
TAPE	400	71.3	72.6	73.7	74.7	75.5	76.3	77.2	78.2	78.9	79.9	78.8							110.4
BAR 29.7 HG	500	69.6	71.1	72.2	73.9	75.6	76.1	77.4	77.9	78.2	79.2	78.1							109.9
(100428. N/M2)	630	71.1	72.9	74.4	76.4	77.8	78.8	80.2	80.4	80.9	80.5	77.6							112.2
TAMB 58. DEG F	800	72.6	73.8	75.9	76.7	78.1	79.3	80.7	81.9	81.9	80.7	78.3							112.9
(288. DEG K)	1000	71.6	73.3	75.4	76.2	77.8	79.3	80.2	82.4	82.4	79.4	76.6							112.8
TRET 52. DEG F	1250	72.1	74.6	76.7	78.5	81.1	83.1	85.2	86.7	86.4	82.2	78.1							116.5
(284. DEG K)	1600	77.6	81.9	85.7	86.8	89.1	92.4	92.4	93.4	92.2	86.5	80.8							123.7
HACT 8.33 GM/M3	2000	76.9	80.4	82.2	85.5	87.6	88.8	89.6	89.9	88.7	83.2	79.8							120.8
(.00830 KG/M3)	2500	78.1	80.1	83.4	86.6	88.7	89.8	90.4	90.6	90.4	84.7	79.8							121.8
NFA 6424. RPM	3150	77.6	80.1	85.6	90.1	92.4	92.1	96.1	95.6	95.7	89.2	84.0							126.2
(673. RAD/SEC)	4000	76.3	80.8	83.8	87.6	90.6	91.5	93.0	93.2	92.3	85.9	81.2							123.9
NFK 6430. RPM	5000	77.0	81.3	85.0	88.5	92.1	94.0	93.4	94.9	91.8	86.9	81.6							125.1
(673. RAD/SEC)	6300	74.8	78.6	82.4	86.4	88.7	90.9	92.1	93.2	91.3	85.8	80.7							123.1
NFD 8423. RPM	8000	73.1	77.5	81.1	85.3	87.3	89.1	91.2	92.1	90.4	85.2	79.8							122.1
(924. RAD/SEC)	10000	71.8	76.0	80.9	84.3	86.6	88.4	90.1	91.9	90.7	84.7	78.7							121.7
NO. OF BLADES 15	12500	71.0	73.9	78.4	82.6	85.2	87.0	89.2	90.4	88.4	83.3	77.9							120.4
FAN TIP SPEED	16000	67.0	71.1	75.0	79.4	81.9	83.6	86.0	88.4	86.1	79.6	75.1							118.0
561. FT/SEC	20000	66.6	69.6	74.1	78.8	80.9	82.7	85.7	87.8	86.5	79.4	74.3							118.0
	25000	66.6	69.2	73.0	77.1	79.2	81.6	84.3	85.6	85.1	77.7	72.9							117.0
	31500	65.4	68.2	71.5	76.3	78.7	80.5	83.8	85.1	84.3	77.3	70.8							117.1
	40000	65.5	66.6	69.7	73.8	76.3	78.3	80.9	82.0	81.7	75.2	67.0							115.9
	50000	67.4	67.1	69.3	71.4	73.5	75.9	78.2	78.9	79.8	73.3	66.4							115.3
	63000	70.3	68.7	71.0	71.8	74.6	75.6	76.5	76.0	76.5	72.3	68.5							116.8
	80000	74.3	74.2	75.5	76.1	79.2	80.0	80.6	80.8	79.6	76.1	72.6							125.0
OVERALL MEASURED																			
OVERALL CALCULATED		87.6	91.2	94.2	97.5	99.9	101.4	102.9	103.7	102.5	97.5	93.9							134.7
	PNDB	100.5	104.9	107.5	111.1	113.4	114.4	116.4	116.7	116.2	111.1	106.9							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-5S
CONFIG 5
LOC SCHENECTADY
DATE 11/18/74
RUN 20/2
TAPE
BAR 29.7 HG (100428. N/M2)
TAMB 58. DEG F (288. DEG K)
TWET 52. DEG F (284. DEG K)
HACT 8.38 GM/M3 (.00838 KG/M3)
NFA 6424. RPM (673. RAD/SEC)
NFK 6430. RPM (673. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 561. FT/SEC

	FREQ.	58. (1.02)	64. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	139. (2.42)	149. (2.60)	159. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
	80																	
	100	44.0	48.1	47.9	49.1	52.1	54.0	54.2	52.4	50.3	51.0	49.7						
	125	45.4	48.5	51.8	50.2	52.6	51.4	51.2	51.6	51.0	50.6	48.7						
	160	45.6	48.4	49.0	50.2	51.2	50.6	51.1	51.9	52.3	52.0	49.0						
	200	45.0	46.6	47.9	49.1	51.9	53.0	53.2	54.1	53.7	53.3	50.5						
	250	46.9	49.5	51.8	53.0	53.3	53.4	54.6	53.7	53.3	52.4	48.7						
	315	49.3	51.2	52.7	53.9	54.0	54.6	54.8	54.4	53.5	52.2	48.0						
	400	47.7	49.8	51.4	52.6	53.4	53.8	53.9	53.8	52.8	51.3	46.0						
	500	45.9	48.2	49.8	51.8	53.3	53.4	54.1	53.4	51.9	50.4	44.9						
	630	47.3	49.9	52.0	54.2	55.5	56.1	56.7	55.8	54.5	51.4	44.1						
	800	48.6	50.7	53.4	54.3	55.6	56.5	57.1	57.1	55.4	51.4	44.5						
	1000	47.5	50.1	52.7	53.7	55.2	56.3	56.4	57.5	55.7	49.9	42.4						
	1250	47.9	51.2	53.8	55.9	56.4	60.0	61.3	61.5	59.5	52.4	43.5						
	1600	53.2	58.3	62.7	64.0	66.3	69.1	68.3	68.1	65.0	56.4	45.8						
	2000	52.2	56.6	59.0	62.6	64.6	65.1	65.3	64.3	61.2	52.7	44.2						
	2500	51.2	56.2	60.0	63.4	65.4	65.9	65.9	64.8	62.7	53.9	43.7						
	3150	52.4	58.9	62.0	66.7	68.9	68.1	71.3	69.4	67.5	57.8	47.1						
	4000	50.6	56.2	59.7	64.0	66.7	67.1	67.7	66.5	63.5	53.7	43.0						
	5000	51.0	56.3	60.6	64.4	67.9	69.3	67.9	67.9	62.5	54.2	42.7						
	6300	47.9	52.9	57.3	61.6	63.8	65.6	65.8	65.3	60.6	51.7	39.7						
	8000	45.0	50.6	55.0	59.5	61.4	62.5	63.6	62.8	58.4	48.9	35.5						
	10000	41.9	47.5	53.2	57.0	59.1	60.3	60.8	60.6	56.3	45.4	29.9						
	12500	38.5	43.9	48.5	53.0	55.5	56.6	57.4	56.3	50.6	39.5	22.5						
	16000	30.1	36.3	41.4	46.3	48.5	49.4	50.0	49.6	42.7	28.6	8.9						
	20000	24.2	29.7	35.7	40.9	42.8	43.5	44.3	42.8	35.8	18.7							
	25000	16.1	21.9	27.6	32.4	34.2	35.2	35.2	31.8	23.8	3.4							
	31500	2.9	10.2	15.9	21.7	23.7	23.6	22.5	18.4	7.4								
	40000				4.4	6.4	5.8	3.5										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.1	66.7	70.1	73.4	75.7	76.7	77.2	76.3	73.4	66.8	59.3						
	PNDB	75.2	80.6	83.8	87.6	89.8	90.0	91.5	90.4	87.9	79.7	70.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM., DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	70.5	71.6	73.2	74.1	75.5	75.5	76.2	76.6	78.2	82.7	85.8							111.5
VEHICLE R-SS	125	73.2	76.3	79.2	78.3	81.3	79.2	78.4	79.1	80.2	82.2	84.6							113.6
CONFIG S	160	72.2	73.6	74.2	75.3	76.3	76.7	78.4	79.9	82.2	84.2	84.8							112.9
LOC SCHENECTADY	200	73.7	72.1	73.4	75.6	77.5	78.7	79.9	81.9	82.7	85.2	86.1							114.9
DATE 11/18/74	250	76.2	75.6	77.2	78.6	80.3	80.0	81.9	82.6	83.2	85.4	85.3							115.8
RUN 20/3	315	76.0	77.1	78.2	79.1	80.3	80.5	80.9	82.4	83.4	84.9	85.1							115.0
TAPE	400	75.8	76.3	77.2	78.1	79.5	80.0	80.9	82.1	83.4	83.9	83.6							114.4
BAR 29.7 HG	500	74.0	74.1	75.4	77.6	78.5	79.5	80.9	81.9	82.4	82.9	82.1							113.6
(100428. N/M2)	630	75.6	75.9	77.9	79.9	81.5	82.0	82.9	84.1	84.4	83.5	81.8							115.6
TAMB 58. DEG F	800	79.3	78.3	78.4	80.6	81.8	83.0	84.4	85.1	84.7	83.2	81.6							116.3
(288. DEG K)	1000	75.1	76.3	78.2	79.4	80.8	82.0	83.1	84.6	85.2	82.2	80.1							115.5
TWET 51. DEG F	1250	74.9	76.9	78.7	80.4	82.8	84.6	86.6	87.4	87.7	83.7	80.6							117.9
(284. DEG K)	1600	76.9	80.4	83.2	85.5	87.6	88.8	90.1	90.9	91.8	86.0	82.1							121.8
HACT 7.66 GM/M3	2000	81.9	85.1	86.9	89.7	91.9	92.8	95.1	94.9	94.2	89.2	84.8							125.7
(.00766 KG/M3)	2500	79.6	83.9	86.6	89.5	91.7	91.6	92.1	92.8	91.4	87.0	82.1							124.0
NFA 7221. RPM	3150	79.3	84.4	86.9	90.8	93.2	93.6	94.6	95.3	95.2	89.2	84.3							126.2
(756. RAD/SEC)	4000	81.0	85.1	88.5	92.5	94.4	95.3	97.0	97.7	96.3	90.2	85.2							128.0
NFK 7228. RPM	5000	80.2	84.8	87.7	92.0	94.3	95.2	95.4	96.4	94.0	89.1	83.9							127.0
(757. RAD/SEC)	6300	78.5	83.3	86.7	90.3	92.7	93.7	94.7	96.4	93.5	88.3	83.0							126.2
NFD 8823. RPM	8000	77.1	81.7	85.9	89.3	91.1	93.1	94.7	95.6	92.9	87.8	82.3							125.6
(924. RAD/SEC)	10000	76.6	81.3	86.2	89.3	91.1	92.4	94.7	94.9	94.0	88.5	82.2							125.6
NO. OF BLADES 15	12500	77.0	79.2	83.5	87.1	89.8	91.0	92.8	93.9	91.2	86.1	80.7							124.1
FAN TIP SPEED	16000	73.0	76.2	80.1	83.5	86.7	87.9	90.1	91.7	88.2	82.7	77.9							121.7
630. FT/SEC	20000	73.7	74.7	78.7	82.9	85.3	87.1	90.0	92.1	88.9	83.0	76.9							122.0
	25000	75.5	73.8	77.4	81.6	84.1	85.9	87.9	89.4	87.3	81.4	75.0							120.7
	31500	73.8	72.9	76.1	80.9	83.1	85.8	87.2	88.7	86.7	80.5	73.7							121.0
	40000	74.2	71.1	74.2	78.9	81.5	83.2	85.6	86.4	84.4	79.4	69.7							120.3
	50000	76.7	69.9	72.8	78.3	79.5	81.4	83.7	83.6	81.3	76.6	68.4							120.1
	63000	79.7	70.4	73.8	80.0	80.3	81.6	82.9	82.4	78.8	75.0	70.3							122.6
	80000	84.0	75.9	79.0	83.0	84.0	85.4	87.1	87.0	83.4	79.3	75.1							130.7
OVERALL MEASURED																			
OVERALL CALCULATED		92.4	94.4	97.4	100.8	102.9	103.9	105.4	106.2	104.7	100.2	97.2							137.9
	PNLB	104.1	107.6	110.6	113.9	115.9	116.7	118.2	119.0	117.9	113.2	109.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	47.5	49.3	51.4	52.5	53.9	53.5	53.5	52.9	52.8	55.0	54.4						
VEHICLE R-55 125	50.1	54.0	57.3	56.7	59.3	57.1	55.6	55.3	54.7	54.4	53.0						
CONFIG 5 160	49.0	51.2	52.3	53.6	54.5	54.5	55.6	55.9	56.6	56.2	53.0						
LOC SCHENECTADY 200	53.4	49.6	51.4	53.8	55.6	56.5	57.0	57.8	57.0	57.1	54.0						
DATE 11/18/74 250	52.6	53.0	55.1	56.7	58.0	57.6	58.9	58.4	57.3	57.1	53.0						
RUN 20/3 315	52.5	54.4	56.0	57.1	58.2	58.0	57.8	58.1	57.5	56.5	52.5						
TAPE 400	52.2	53.6	54.9	56.0	57.4	57.5	57.7	57.7	57.3	55.3	50.7						
BAR 29.7 HG 500	50.3	51.2	52.1	55.5	56.3	56.9	57.6	57.4	56.2	54.1	48.9						
(100428. N/M2) 630	51.7	52.9	55.5	57.8	59.2	59.3	59.4	59.5	58.0	54.4	48.4						
TAMB 58. DEG F 800	55.4	53.2	55.8	58.3	59.4	60.2	60.8	60.3	58.1	53.9	47.8						
(288. DEG K) 1000	51.0	53.1	55.5	56.9	58.2	59.1	59.4	59.7	58.4	52.7	45.9						
TWET 51. DEG F 1250	50.6	53.5	55.8	57.8	60.1	61.4	62.8	62.2	60.7	53.9	46.0						
(284. DEG K) 1600	52.4	56.8	60.2	62.7	64.8	65.5	66.1	65.5	64.7	55.9	47.0						
HACT 7.66 GM/M3 2000	57.2	61.4	63.7	66.8	68.8	69.3	70.8	69.3	66.7	58.8	49.2						
(.00766 KG/M3) 2500	54.7	60.0	63.3	66.4	68.4	67.9	67.6	67.0	63.7	56.2	45.9						
NFA 7221. RPM 3150	54.1	60.2	63.2	67.4	69.6	69.6	69.8	69.1	67.0	57.8	47.3						
(756. RAD/SEC) 4000	55.3	60.4	64.5	68.7	70.4	70.9	71.7	71.0	67.5	58.0	47.0						
NFK 7228. RPM 5000	54.2	59.9	63.4	67.9	70.2	70.6	69.9	69.4	64.8	56.4	45.0						
(757. RAD/SEC) 6300	51.7	57.6	61.6	65.6	67.8	68.3	68.3	68.5	63.2	54.2	41.9						
NFD 8823. RPM 8000	49.0	54.9	59.8	63.4	65.1	66.5	67.1	66.3	60.9	51.4	38.0						
(924. RAD/SEC) 10000	46.7	52.8	58.5	62.0	63.6	64.3	65.4	63.6	59.6	48.9	33.5						
NO. OF BLADES 15 12500	44.5	48.3	53.6	57.5	60.1	60.6	60.9	59.8	53.4	42.3	25.3						
FAN TIP SPEED 16000	36.2	41.4	46.5	50.3	53.3	53.7	54.1	52.9	44.8	31.6	11.7						
630. FT/SEC 20000	31.2	34.8	40.3	45.0	47.1	47.8	48.6	47.1	38.1	22.3							
25000	24.9	28.5	32.0	37.0	39.1	39.5	38.8	35.8	25.9	7.0							
31500	11.3	14.9	20.6	26.3	28.1	29.0	26.7	22.0	9.9								
40000			3.5	9.6	11.6	10.7	8.2	0.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.9	69.7	72.9	76.4	78.4	78.7	79.1	78.4	75.4	68.9	63.1						
PNDB	78.7	83.1	86.6	90.2	92.1	92.5	93.0	92.4	89.3	81.5	72.3						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. M)
VEHICLE RIG
CONFIG S
LOC SCHENECTADY
DATE 11/18/74
RUN 20/4
TAPE
BAR 29.7 HG (100428. N/M2)
TAMB 58. DEG F (288. DEG K)
TDET 51. DEG F (284. DEG K)
MACT 7.56 GM/M3 (.00766 KG/M3)
NFA 8022. RPM (840. RAD/SEC)
NFK 8030. RPM (841. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 700. FT/SEC

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	71.7	74.0	75.4	75.8	77.5	78.5	93.7	60.1	81.3	85.6	69.3							119.3
125	79.2	78.0	74.1	78.8	81.8	83.0	89.9	83.4	84.6	86.3	89.3							118.3
160	75.7	77.3	77.9	78.6	79.5	80.2	91.4	83.9	85.6	87.1	88.8							118.7
200	75.2	75.8	76.6	78.1	80.5	82.7	88.9	84.9	86.3	88.3	90.3							118.4
250	78.7	80.0	80.9	82.8	83.5	83.7	91.4	85.6	86.8	87.8	89.5							119.9
315	79.0	80.3	81.4	82.3	83.3	84.0	88.9	85.9	86.6	87.8	88.3							119.9
400	78.5	79.3	80.4	80.6	82.5	83.2	86.7	85.9	86.1	86.5	86.8							117.9
500	76.8	78.3	78.9	80.1	81.8	82.8	85.4	84.6	85.3	85.8	86.3							117.0
630	77.6	79.3	80.6	82.1	83.6	85.3	89.7	86.9	86.9	86.1	85.8							119.1
800	80.6	81.5	82.6	83.1	84.6	85.5	87.7	87.9	87.3	86.6	85.6							119.3
1000	77.8	80.0	81.8	82.1	84.1	85.0	86.4	87.6	86.8	84.8	83.3							118.4
1250	78.4	79.8	81.6	83.2	84.6	86.8	88.4	89.4	89.3	85.3	83.8							119.9
1600	78.8	81.8	83.9	85.5	87.9	89.3	90.1	91.1	90.6	85.6	83.1							121.8
2000	86.4	88.6	91.1	92.2	93.9	94.3	94.1	93.6	92.9	91.6	87.5							129.0
2500	82.1	86.6	89.6	92.3	94.9	95.3	95.9	96.1	92.6	88.4	84.5							127.1
3150	81.3	87.3	89.6	93.0	95.4	95.3	96.1	97.8	94.3	88.9	85.7							127.8
4000	83.3	88.8	92.2	95.2	98.1	99.0	99.2	100.7	97.3	93.6	89.2							130.9
5000	81.7	88.0	90.9	94.2	96.6	97.4	98.4	98.1	94.5	90.3	86.1							129.2
6300	82.0	89.5	91.9	94.3	96.9	97.7	99.4	99.2	94.4	90.2	86.2							129.9
8000	80.3	85.7	90.1	93.5	95.1	96.8	97.9	98.6	93.8	89.9	85.0							128.9
10000	79.6	85.2	89.4	91.6	94.6	95.6	97.7	97.9	94.4	89.1	84.9							128.3
12500	79.5	83.7	87.7	90.8	93.8	95.0	97.3	97.2	93.6	88.5	83.7							127.9
16000	76.0	80.8	84.3	87.5	90.9	91.9	93.8	95.0	90.6	85.3	81.1							125.3
20000	75.7	79.9	83.2	86.9	89.3	90.8	93.5	94.8	90.1	85.1	80.4							125.1
25000	76.2	79.5	82.4	85.6	88.6	90.2	92.7	94.2	90.7	84.7	80.0							125.1
31500	74.5	78.4	81.3	84.2	87.1	89.1	90.7	92.0	89.1	83.6	78.2							124.3
40000	74.9	77.3	79.7	82.2	84.5	87.2	89.1	89.4	86.6	81.7	75.5							123.6
50000	77.4	76.8	79.5	80.6	83.0	84.9	87.0	86.4	83.7	81.0	75.1							123.3
63000	79.5	78.1	80.7	80.5	82.8	84.8	85.4	84.7	82.7	80.6	77.7							125.4
80000	84.0	81.4	84.7	84.5	86.7	88.6	89.3	89.5	86.3	84.2	81.3							133.4
OVERALL MEASURED																		
OVERALL CALCULATED	94.7	98.3	101.1	103.7	106.3	107.4	109.0	109.2	105.9	102.4	100.7							141.0
PNDB	106.7	111.2	114.1	116.7	119.2	120.2	121.4	121.9	118.9	115.7	112.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.7	51.8	53.6	54.3	55.9	56.5	71.0	56.4	56.0	57.9	57.9						
125	56.1	55.7	56.3	57.2	60.1	60.9	67.1	59.5	59.1	58.5	57.7						
160	52.5	54.9	56.0	56.9	57.7	58.0	68.6	59.9	60.0	59.1	58.9						
200	51.9	53.3	54.6	56.3	58.6	60.5	66.0	60.8	60.6	60.2	58.2						
250	55.3	57.4	58.8	60.9	61.5	61.4	68.4	61.4	61.0	59.5	57.2						
315	55.5	57.6	59.2	60.4	61.2	61.5	65.8	61.6	60.6	59.3	55.7						
400	54.9	56.5	58.1	58.5	60.4	60.7	63.4	61.5	60.0	57.9	53.9						
500	53.1	55.2	56.5	58.0	59.6	60.1	62.1	60.1	59.1	57.0	53.2						
630	53.7	56.3	58.2	59.9	61.2	62.6	66.2	62.2	60.5	57.0	52.4						
800	56.6	58.4	60.1	60.8	62.1	62.7	64.1	63.1	60.8	57.3	51.8						
1000	53.7	56.8	58.9	59.6	61.5	62.1	62.7	62.7	60.1	55.3	49.1						
1250	54.1	56.4	58.8	60.6	61.9	63.7	64.5	64.2	62.4	55.6	49.2						
1600	54.1	58.3	60.9	62.7	65.8	66.6	66.1	65.8	63.4	55.5	48.0						
2000	61.7	64.8	67.9	70.3	72.8	74.8	74.8	74.8	68.3	61.1	51.9						
2500	57.2	62.7	66.2	69.1	71.7	71.7	71.4	70.3	64.8	57.5	48.4						
3150	56.1	63.1	65.9	69.8	71.9	71.4	71.3	71.6	66.1	57.5	48.8						
4000	57.5	64.1	68.2	71.4	74.2	74.6	74.0	74.0	68.4	61.3	51.0						
5000	55.7	63.1	66.6	70.2	72.4	72.8	72.9	71.1	65.2	57.5	47.2						
6300	55.2	63.8	66.8	69.6	72.1	72.3	73.1	71.2	64.1	56.1	45.2						
8000	52.2	58.8	64.0	67.7	69.1	70.3	70.3	69.3	61.8	53.6	40.8						
10000	49.7	56.7	61.7	64.2	67.1	67.5	68.4	66.6	60.1	49.8	36.2						
12500	47.0	52.8	57.8	61.3	64.1	64.8	65.4	63.8	55.8	44.7	28.3						
16000	39.2	46.8	50.7	54.3	57.6	57.7	57.9	56.1	47.2	34.2	15.8						
20000	33.2	40.0	44.7	49.8	51.1	51.6	52.1	49.8	39.3	24.5	0.8						
25000	25.7	32.2	37.8	41.8	43.6	43.8	43.5	40.4	29.4	10.4							
31500	12.1	20.3	25.8	29.6	32.1	32.2	30.2	25.2	12.3								
40000		3.2	9.8	12.8	14.6	14.7	11.7	3.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.7	73.2	76.4	79.2	81.5	82.1	83.1	81.4	76.5	71.2	66.8						
PNDB	81.6	86.7	90.1	93.0	95.4	95.9	96.4	95.3	90.4	84.0	78.7						

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 15.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
FREQ.	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.2	73.8	75.6	75.1	76.5	77.2	78.4	78.9	81.3	85.6	88.8							114.0
VEHICLE PASS	125	79.0	77.5	77.4	78.3	81.5	82.7	82.7	83.1	84.3	85.5	89.0							116.5
CONFIG S	160	76.5	77.8	77.6	78.6	79.5	79.7	81.4	83.4	85.3	86.8	89.0							116.2
LOC SCHEVECTADY	200	75.5	76.0	77.4	77.6	80.0	82.0	83.2	84.6	86.1	88.5	90.8							117.4
DATE 11/18/74	250	78.5	80.0	81.4	82.3	83.5	84.2	85.4	85.9	86.8	88.8	89.3							118.6
RUN 20/5	315	79.5	80.8	81.6	82.1	83.0	83.7	84.9	85.4	86.2	88.0	89.3							118.3
TAPE	400	78.3	79.5	80.6	80.9	82.0	82.5	84.4	85.1	86.1	86.8	87.3							117.4
BAR 29.7 HG	500	76.5	78.0	78.6	80.4	81.5	82.8	84.2	84.9	85.6	86.1	85.8							116.8
(100426. N/M2)	630	77.6	79.3	80.8	82.1	83.8	85.0	86.2	86.9	87.1	86.6	85.8							118.4
TAMB 58. DEG F	800	80.6	81.3	82.6	83.1	84.6	85.8	87.2	87.9	87.1	86.3	85.8							119.2
(288. DEG K)	1000	77.8	79.8	81.4	82.1	83.8	84.8	86.1	87.4	87.1	84.3	83.3							118.2
T-ET 51. DEG F	1250	77.9	80.3	81.1	82.9	84.8	86.8	88.4	89.9	89.3	85.6	83.8							120.0
(284. DEG K)	1600	78.4	82.1	84.1	86.9	88.6	89.3	90.6	91.4	90.6	85.1	83.1							122.0
MACT 7.66 GM/M3	2000	86.9	89.1	90.4	93.2	95.4	98.3	98.9	99.9	95.4	91.4	87.3							129.7
(.00766 KG/M3)	2500	82.3	87.1	89.4	92.8	94.9	95.1	95.9	96.6	92.9	88.1	84.5							127.2
NFA 8019. RPM	3150	81.6	87.1	89.8	93.3	95.9	96.3	95.8	98.5	94.6	89.1	85.5							128.3
(840. RAD/SEC)	4000	84.0	89.3	92.2	95.7	97.9	99.5	99.5	101.5	97.5	93.3	88.7							131.2
NFK 8027. RPM	5000	82.2	89.0	91.2	94.7	96.8	97.7	98.4	98.6	94.5	90.0	85.4							129.4
(840. RAD/SEC)	6300	82.5	89.8	91.6	94.8	96.9	98.2	98.7	99.7	94.4	90.7	85.9							130.0
NFD 8023. RPM	8000	80.6	86.7	90.4	94.0	95.1	97.1	97.4	98.6	94.3	89.4	85.0							128.9
(924. RAD/SEC)	10000	79.9	85.5	89.1	91.8	94.6	96.1	97.0	98.1	94.4	89.9	85.4							128.6
NO. OF BLADES 15	12500	80.3	83.7	87.9	91.1	93.5	95.3	97.0	97.4	92.8	88.3	83.9							127.8
FAN TIP SPEED	16000	75.5	80.6	84.5	88.0	89.9	91.9	93.8	95.2	90.1	84.6	80.9							125.2
780. FT/SEC	20000	75.5	79.9	83.5	86.6	89.5	91.3	93.8	94.8	90.6	84.9	80.4							125.3
	25000	76.5	79.2	82.6	85.4	88.6	90.4	93.2	94.4	90.7	86.7	80.2							125.3
	31500	74.8	78.6	81.1	84.9	87.1	89.3	91.2	92.5	89.4	83.4	77.9							124.7
	40000	74.9	77.8	79.4	82.4	84.5	87.2	89.6	89.9	87.1	82.0	75.2							123.9
	50000	76.7	77.3	79.0	80.1	82.8	84.7	87.2	86.6	84.0	80.5	75.4							123.3
	63000	80.0	77.8	80.5	79.5	81.3	83.3	84.7	83.7	82.2	80.1	77.7							124.6
	80000	84.0	80.4	83.7	82.5	84.7	86.4	87.8	87.3	85.8	83.4	81.1							131.0
OVERALL MEASURED																			
OVERALL CALCULATED		94.9	98.5	101.8	104.0	106.2	107.7	108.5	109.6	105.9	102.4	100.8							140.7
PNDB		107.1	111.6	114.0	117.0	119.1	120.5	120.9	122.4	119.1	115.6	112.4							

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE ROSS
CONFIG S
LOC SCHENECTADY
DATE 11/18/74
RUN 20/5
TAPE
BAR 29.7 HG (83426. N/M2)
TAMB 90. DEG F (288. DEG K)
TRET 91. DEG F (284. DEG K)
MACT 7.66 GM/M3 (.00700 KG/M3)
NFA 8019. RPM (840. RAD/SEC)
NFK 8627. RPM (840. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 760. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.
FREQ.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.)
50												
63												
80												
100	48.2	51.5	53.9	53.5	54.9	55.2	55.7	55.1	54.0	57.9	57.4	
125	55.0	55.2	55.5	56.7	59.8	60.6	59.9	59.3	58.8	58.8	57.4	
160	53.3	55.4	55.7	56.9	57.7	57.5	58.8	59.4	59.8	58.8	57.2	
200	52.2	53.5	55.4	55.8	58.1	59.7	60.2	60.5	60.4	60.4	58.7	
250	55.1	57.4	59.3	60.4	61.5	61.9	62.4	61.7	61.8	59.8	58.9	
315	58.8	59.1	59.5	60.1	61.8	61.3	61.8	61.1	60.9	59.8	59.7	
400	54.7	56.8	58.4	58.8	59.9	60.8	61.2	60.7	60.8	57.9	56.4	
500	52.8	55.2	56.3	58.2	59.3	60.1	60.8	60.4	59.4	57.2	52.7	
630	53.7	56.3	58.2	59.9	61.5	62.3	62.7	62.2	60.7	57.5	52.4	
800	56.6	58.2	60.1	60.8	62.1	62.9	63.6	63.1	60.5	57.1	52.8	
1000	53.7	56.5	58.7	59.8	61.2	61.8	62.4	62.4	60.3	54.8	49.1	
1250	53.6	56.9	58.3	60.3	62.1	63.7	64.5	64.7	62.4	55.8	49.8	
1600	53.9	58.5	61.1	63.2	65.8	66.6	66.6	66.8	63.4	55.8	48.8	
2000	62.2	65.3	67.2	70.3	72.3	74.8	74.6	74.3	67.8	60.9	51.7	
2500	57.4	63.2	66.8	69.6	71.7	73.4	73.4	73.8	65.1	57.3	48.6	
3150	56.4	62.9	66.2	69.9	72.4	72.4	73.8	72.4	64.4	57.7	48.5	
4000	58.3	64.6	68.2	71.9	73.9	75.1	74.2	74.8	66.7	61.1	50.5	
5000	56.2	63.1	66.9	70.7	72.4	73.1	72.9	71.6	65.2	57.3	46.4	
6300	55.7	64.1	66.6	69.8	72.1	72.8	72.3	71.7	64.1	56.6	44.8	
8000	52.5	59.8	64.2	68.2	69.1	70.5	69.8	69.3	62.3	53.1	40.8	
10000	49.9	57.8	61.5	64.5	67.1	68.8	68.6	66.8	60.1	50.5	36.7	
12500	47.7	52.8	58.8	61.5	63.8	64.8	65.2	63.3	55.1	46.5	28.5	
16000	38.7	45.8	50.9	54.8	56.6	57.7	57.9	56.4	46.7	33.5	14.7	
20000	33.0	40.8	45.8	48.7	51.4	52.1	52.4	49.8	38.8	24.2	0.0	
25000	25.9	32.0	37.2	40.7	43.6	44.8	44.0	40.6	29.4	18.4		
31500	12.3	20.6	25.5	30.3	32.1	32.5	30.7	25.7	12.5			
40000		2.9	8.7	13.1	14.6	14.7	12.2	4.8				
50000												
63000												
80000												
OVERALL CALCULATED	69.0	73.5	76.3	79.5	81.5	82.4	82.1	81.8	76.3	71.2	66.8	
PNLB	82.0	87.1	90.1	93.3	95.3	96.2	95.8	95.8	90.5	83.9	75.5	

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 15.4

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5θ. (1.32)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.63)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	76.5	77.8	80.9	81.0	81.3	79.8	74.4	70.2	76.7	74.7	77.6							112.7
VEHICLE RUSS	125	67.8	68.1	71.4	68.4	73.8	69.3	69.7	71.2	72.7	74.4	76.3							105.3
COMPIG S	160	65.8	66.6	67.7	67.9	68.8	69.8	69.9	71.7	73.9	75.9	78.8							104.9
LOC SCHENECTADY	200	65.8	66.3	67.4	68.1	70.9	72.8	73.2	74.7	75.8	78.2	78.6							106.9
DATE 11/18/74	250	67.5	68.8	70.4	71.6	72.5	72.5	74.2	74.2	75.4	76.4	77.1							107.1
RUN 20/6	315	68.8	70.3	71.7	72.1	73.9	73.5	73.9	74.9	75.7	76.9	78.3							107.6
TAPE	400	67.8	69.8	70.9	71.7	73.3	73.5	74.2	75.4	76.2	76.2	75.1							107.4
BAR 29.7 HG	500	66.8	68.6	69.2	70.7	72.3	73.3	74.2	74.7	75.4	75.9	73.8							106.8
(33620. N/M2)	630	69.4	70.4	71.9	73.9	75.1	76.1	76.9	77.7	78.9	78.2	75.3							109.4
TAPB 58. DEG F	800	71.1	71.8	73.7	74.4	75.6	76.6	77.9	79.4	79.4	78.4	75.3							110.4
(296. DEG K)	1000	68.9	71.1	72.9	73.4	75.1	76.6	78.4	79.9	80.4	78.7	74.1							110.6
TSET 51. DEG F	1250	72.1	76.4	77.7	79.7	82.1	84.3	85.2	86.4	87.4	84.2	78.6							117.1
(284. DEG K)	1600	73.4	77.6	78.9	81.3	83.5	84.9	86.1	86.9	87.7	84.8	77.8							117.8
HACT 7.66 GM/M3	2000	73.9	76.9	78.7	82.3	84.4	85.4	86.1	85.9	85.9	82.2	76.8							117.5
(.00766 KG/M3)	2500	75.4	78.9	81.1	84.1	86.4	89.1	91.4	89.9	91.2	85.3	80.8							121.4
NFA 5019. RPM	3150	75.1	78.3	81.4	84.3	88.2	89.8	91.6	89.8	91.7	85.2	81.8							121.5
(526. RAD/SEC)	4000	74.3	78.3	82.8	85.8	88.6	90.5	90.2	91.5	90.8	86.4	80.2							122.2
NFK 5024. RPM	5000	71.5	76.1	79.5	83.3	85.8	87.5	88.9	89.7	89.8	84.1	78.1							120.1
(504. RAD/SEC)	6300	71.3	75.3	78.7	82.4	84.7	86.7	87.4	89.5	89.6	82.8	77.7							119.4
NFB 8023. RPM	8000	69.6	73.7	77.4	81.1	83.1	84.8	86.9	87.7	87.6	82.3	76.3							118.1
(924. RAD/SEC)	10000	68.1	71.5	75.7	79.6	82.4	84.7	86.2	87.2	87.5	82.3	76.5							117.7
NO. OF BLADES 18	12500	68.1	70.5	74.0	78.6	81.3	83.5	85.3	86.7	86.2	80.4	74.7							116.9
FAN TIP SPEED	16000	64.6	66.9	70.6	74.5	77.9	80.7	82.1	84.0	83.5	77.2	73.4							114.3
491. FT/SEC	20000	64.5	65.7	69.7	73.8	77.8	78.9	81.5	83.6	83.4	77.8	71.9							114.1
	25000	66.8	66.8	68.7	72.7	75.8	77.2	79.9	81.5	81.8	75.4	71.8							112.9
	31500	64.3	65.4	67.6	71.7	74.4	76.9	78.7	80.8	80.4	74.8	70.7							113.8
	40000	64.7	64.8	66.9	69.5	71.8	74.5	76.8	77.7	77.7	72.6	68.7							112.8
	50000	67.7	66.1	68.3	68.1	68.8	71.9	74.7	74.4	74.1	70.9	67.4							111.5
	63000	70.3	68.1	70.5	69.3	70.8	71.6	72.9	72.8	72.5	71.8	68.5							113.9
	80000	74.8	72.2	73.5	72.8	74.9	74.9	75.8	75.6	76.1	74.1	71.1							121.1
OVERALL MEASURED																			
OVERALL CALCULATED		85.6	88.4	91.1	93.8	96.3	98.8	99.3	99.7	100.1	95.4	91.2							131.3
	PWLB	98.8	101.5	104.5	107.3	109.8	111.8	112.6	112.8	113.2	108.8	104.2							

FULL SCALE DATA REDUCTION PROGRAM

PPCC, DATE = MONTH 11 DAY 22 NO. 19.6

MODEL SQUARE PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (ARE RADIANS)

FREQ.	5a. (1.22)	6a. (1.19)	7a. (1.36)	8a. (1.53)	9a. (1.71)	10a. (1.88)	11a. (2.06)	12a. (2.24)	13a. (2.42)	14a. (2.65)	15a. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
58																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	53.5	55.6	59.2	60.3	59.6	57.0	51.7	46.4	45.3	47.6	48.2						
VEHICLE R-SS 125	43.9	45.8	49.6	48.7	51.3	47.2	46.9	47.3	47.2	46.8	44.7						
CONFIG S 160	41.9	44.2	45.8	46.2	47.8	48.8	47.1	47.7	48.3	48.8	44.7						
LOC SCHENECTADY 200	42.5	43.8	45.4	46.3	48.1	49.7	50.2	50.6	50.2	50.1	46.5						
DATE 11/16/74 250	44.1	46.2	48.3	49.7	50.6	50.2	51.1	50.0	49.6	48.1	44.7						
RUN 23/6 315	45.3	47.7	49.5	50.2	51.8	51.1	50.8	50.6	49.7	48.5	43.7						
TAPE 400	44.2	47.1	49.7	49.6	50.9	51.8	50.9	51.8	50.1	47.6	42.2						
BAR 29.7 HG 500	43.1	45.7	46.8	48.5	50.1	50.7	50.8	50.2	49.2	47.1	43.7						
(88428. N/M2) 630	44.5	47.4	49.5	51.7	52.7	53.3	53.5	53.0	52.5	49.2	41.9						
TAMB 50. DEG F 800	47.1	48.7	51.1	52.1	53.1	53.7	54.3	54.6	52.9	49.2	41.5						
(288. DEG K) 1000	44.8	47.9	50.2	50.9	52.5	53.6	54.7	55.8	53.7	49.2	39.9						
THET 51. DEG F 1250	47.9	51.8	54.8	57.1	58.4	61.2	61.3	61.3	60.5	56.4	44.8						
(284. DEG K) 1600	47.9	54.1	55.9	58.5	60.8	61.6	62.1	61.6	60.5	53.9	42.8						
HACT 7.66 GM/M3 2000	49.2	53.1	55.5	59.3	61.3	61.9	61.8	60.3	58.4	51.8	41.2						
(.00706 KG/M3) 2500	50.5	55.6	57.8	60.9	63.2	65.4	66.9	64.1	63.4	54.4	44.7						
NFA 5619. RPM 3150	49.9	54.7	57.7	60.9	64.7	65.8	66.2	63.7	63.5	53.8	44.1						
(588. RAD/SEC) 4000	48.3	53.7	58.7	62.8	64.7	66.2	65.8	64.8	62.8	54.2	42.8						
NFK 5624. RPM 5000	45.5	51.1	55.2	59.2	61.7	62.8	63.4	62.7	60.6	51.4	39.2						
(589. RAD/SEC) 6300	44.4	49.6	53.6	57.6	59.8	61.3	61.1	61.5	58.7	48.7	36.7						
NFB 8023. RPM 8000	41.5	46.9	51.3	55.2	57.1	58.3	58.3	58.3	55.6	45.9	32.8						
(824. RAD/SEC) 10000	38.2	43.2	48.0	52.3	54.9	56.6	56.9	55.9	53.1	42.9	27.7						
NO. OF BLADES 15 12500	35.5	39.6	44.1	49.1	51.6	53.1	53.4	52.6	48.4	36.6	19.3						
FAN TIP SPEED 16000	27.7	32.1	37.8	41.4	44.8	46.5	46.1	45.2	40.1	28.1	7.2						
401. FT/SEC 20000	22.8	25.8	31.3	36.0	38.9	39.6	40.1	38.8	32.8	18.3							
25000	15.5	19.5	23.2	28.8	30.6	36.8	38.8	27.7	19.7	1.8							
31500	1.8	7.4	12.1	17.1	19.4	20.8	18.2	14.8	3.6								
40000				8.1	1.9	2.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.3	64.2	67.3	70.1	72.3	73.4	73.8	72.5	71.8	64.8	56.1						
PNDB	72.6	77.1	80.6	83.6	86.1	87.3	87.7	86.3	84.8	77.8	67.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 22 YR. 11.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.5	72.8	76.2	78.1	78.0	77.3	73.4	68.7	71.4	76.2	77.1							109.6
125	67.5	66.6	69.4	68.1	69.0	68.5	69.2	70.9	72.2	74.4	76.3							104.5
160	64.5	66.1	65.2	66.9	67.5	67.8	69.7	71.4	72.9	75.2	76.6							104.2
200	64.5	65.6	66.4	67.6	69.5	71.0	72.4	74.4	75.2	77.2	78.6							106.3
250	66.3	68.3	69.2	70.4	71.3	72.0	73.2	74.2	74.7	76.2	76.8							108.5
315	67.5	69.6	70.2	71.9	72.0	73.0	73.4	73.9	74.7	76.4	76.3							108.9
400	66.8	68.8	69.4	70.9	71.8	73.0	73.4	74.9	74.9	75.4	74.6							108.8
500	65.8	67.8	68.2	70.4	71.6	72.8	73.4	74.2	73.9	74.4	73.1							108.0
630	67.4	70.1	70.9	73.2	74.6	75.3	75.9	76.9	77.4	77.2	75.1							108.7
800	70.6	71.8	73.2	74.2	75.6	76.1	77.7	78.9	78.7	78.2	75.3							110.1
1000	69.6	71.1	73.2	74.2	74.8	76.3	77.9	79.9	79.7	77.4	73.3							110.3
1250	73.1	76.1	78.2	78.7	81.1	83.1	83.9	85.2	85.9	84.2	78.3							116.1
1600	73.1	76.9	78.7	79.8	81.9	83.4	84.4	85.9	86.4	83.2	77.1							116.6
2000	73.9	77.4	77.4	80.0	83.6	85.4	85.6	85.1	85.2	80.5	76.6							116.8
2500	74.6	78.7	79.4	83.3	85.2	86.1	86.1	89.1	89.4	84.0	79.8							119.9
3150	73.6	77.9	79.4	83.1	86.4	88.4	88.6	89.8	91.2	84.2	80.5							120.6
4000	71.8	76.9	79.0	82.3	85.1	87.3	87.8	90.0	89.4	83.9	79.2							119.8
5000	70.2	74.8	77.0	81.3	84.1	86.3	86.7	88.7	87.8	81.7	77.9							118.5
6300	69.0	72.9	75.2	80.1	83.2	85.0	85.7	87.7	86.5	81.1	78.5							117.5
8000	67.2	71.3	74.2	78.5	81.4	83.1	84.5	86.7	86.7	80.0	78.1							116.5
10000	66.4	69.6	72.5	77.9	80.7	82.5	84.5	85.7	85.5	79.8	80.8							116.0
12500	65.9	68.5	71.3	77.5	80.6	81.4	83.1	86.0	83.7	78.5	82.0							115.6
16000	63.1	66.0	68.4	73.9	76.8	78.8	80.9	83.1	81.8	75.8	82.5							113.5
20000	63.4	65.1	68.1	73.0	75.9	78.2	79.6	83.0	82.2	74.9	84.3							113.8
25000	64.1	65.7	67.0	71.5	74.2	76.1	78.1	80.1	79.6	73.5	82.1							112.2
31500	63.7	64.3	66.5	70.4	73.5	75.8	77.1	79.6	79.5	73.1	78.6							112.2
40000	64.8	64.4	66.3	68.3	71.1	73.6	75.7	77.1	77.1	71.5	75.4							111.5
50000	67.9	65.3	68.3	67.4	70.0	71.2	73.7	73.6	73.5	69.6	73.4							111.2
63000	70.0	66.9	70.0	67.8	70.6	70.1	71.7	69.8	70.3	68.5	69.8							112.7
80000	73.3	70.5	72.6	70.4	73.3	73.0	73.4	72.2	71.2	71.9	71.0							119.2
OVERALL MEASURED																		
OVERALL CALCULATED	84.4	87.3	89.0	92.0	94.6	96.5	97.1	98.7	98.7	94.0	93.3							120.8
PNDB	96.7	100.4	102.0	105.2	108.0	109.8	110.3	111.7	112.2	107.1	104.0							

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 12
LOC SCHENECTADY
DATE 11/13/74
RUN 16/1
TAPE
BAR 29.4 MB (99351. N/M2)
TAMB 53. DEG F (285. DEG K)
TWET 47. DEG F (281. DEG K)
HACT 6.68 GM/M3 (.00668 KG/M3)
NFA 5592. RPM (585. RAD/SEC)
NFK 5425. RPM (559. RAD/SEC)
NFS 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 480. FT/SEC

 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 11 DAY 22 NO. 11.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
80																	
100	46.5	50.6	54.4	56.6	56.4	55.2	50.7	44.9	46.1	48.5	45.7						
125	44	44.3	47.6	46.5	47.3	46.4	46.4	47.1	46.7	46.6	44.7						
160	41.3	43.7	43.3	45.2	45.7	45.6	46.8	47.4	47.3	47.2	44.7						
200	41.2	43.1	44.4	45.6	47.6	48.7	49.5	50.3	49.5	49.1	46.5						
250	42.9	45.7	47.1	48.5	49.3	49.7	50.1	50.0	48.8	47.9	44.5						
315	44.0	46.9	48.0	49.9	50.0	50.6	50.3	49.6	48.7	48.0	43.7						
400	43.2	46.1	47.2	48.8	49.7	50.5	50.2	50.5	48.8	46.8	41.7						
500	42.1	45.0	45.9	48.3	49.3	50.2	50.1	49.7	47.7	45.6	39.9						
630	43.5	47.1	48.5	50.9	52.2	52.6	52.5	52.3	51.0	48.2	41.6						
800	46.6	48.7	50.6	51.8	53.1	53.2	54.1	54.1	52.1	48.9	41.5						
1000	44.5	47.9	50.5	51.7	52.2	53.3	54.2	55.0	52.9	47.9	39.2						
1250	48.9	52.7	55.3	56.1	58.4	60.0	60.0	60.0	59.0	54.4	43.8						
1600	48.7	53.3	55.7	57.8	59.8	60.1	60.3	60.6	59.2	53.1	42.8						
2000	49.2	53.7	54.2	57.1	60.6	61.9	61.4	59.6	57.7	50.0	41.8						
2500	49.7	54.7	56.0	60.2	61.9	64.5	63.6	63.3	61.7	53.2	43.7						
3150	49.4	53.7	55.7	59.7	62.9	64.4	63.8	63.7	63.0	52.9	43.6						
4000	46.1	52.2	55.0	58.5	61.2	62.9	62.5	63.3	60.5	51.7	41.8						
5000	44.2	49.9	52.7	57.2	59.9	61.6	61.1	61.7	58.6	48.9	39.8						
6300	42.2	47.2	50.1	55.4	58.3	59.8	59.3	59.8	56.2	47.8	37.5						
8000	39.0	44.4	48.1	52.8	55.4	56.6	56.9	57.4	54.7	43.7	33.8						
10000	36.5	41.1	44.8	50.6	53.2	54.4	55.2	54.4	51.2	40.5	32.0						
12500	33.3	37.6	41.1	47.9	50.9	50.9	51.3	51.9	46.0	34.7	26.6						
16000	26.3	31.2	34.8	40.7	43.4	44.5	45.0	44.3	38.4	24.7	16.3						
20000	20.9	25.1	29.6	35.1	37.7	38.9	38.2	38.0	31.5	14.2	3.9						
25000	13.6	18.4	21.6	26.9	29.2	29.7	28.9	26.3	18.3								
31500	1.2	6.3	10.9	15.8	18.5	18.9	16.6	12.9	2.7								
40000					1.2	1.1											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.9	63.1	65.2	68.2	70.5	72.0	71.6	71.6	69.7	62.9	55.8						
PNDB	71.4	76.1	78.2	81.7	84.4	85.8	85.4	85.3	83.9	75.7	66.9						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-5S
CONFIG 12
LOC SCHENECTADY
DATE 11/13/74
RUN 16/1
TAPE
BAR 29.4 HG (995.1. MB)
TAMB 53. DEG F (285. DEG K)
T-DT 47. DEG F (281. DEG K)
HACT 0.00 GM/M3 (.00068 KG/M3)
NFA 5592. RPM (585. RAD/SEC)
NFK 5525. RPM (579. RAD/SEC)
NFS 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 485. FT/SEC

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM — PROG. DATE = MONTH 11 DAY 22 HR. 11.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.0	72.6	70.2	69.4	72.3	73.0	73.4	72.9	73.9	77.4	80.8							107.7
VEHICLE R-55	125	67.8	70.3	71.9	71.4	71.8	72.0	72.7	74.9	75.7	77.4	80.1							107.7
CONFIG 12	160	67.5	69.3	69.4	70.4	71.3	71.5	73.2	75.2	77.2	79.4	80.6							108.1
LOC SCHENECTADY	200	67.8	68.8	69.7	71.1	73.0	75.0	75.7	77.9	78.4	80.9	82.1							109.9
DATE 11/13/74	250	70.3	71.6	72.7	74.4	75.0	75.5	76.7	77.9	78.2	79.7	80.6							110.1
RUN 15/2	315	71.3	73.3	73.7	75.1	75.5	76.3	77.2	77.9	78.7	80.2	80.3							110.6
TAPE	400	69.8	71.6	72.4	73.9	75.0	75.5	76.4	77.7	77.9	78.4	78.6							109.6
BAR 29.4 HG	500	68.8	70.3	70.7	73.2	74.8	75.3	76.4	77.2	77.2	77.7	77.3							109.0
(99351. N/M2)	630	70.4	72.9	74.2	75.9	77.3	78.1	78.7	79.9	80.2	79.7	77.8							111.5
TAMB 53. DEG F	800	72.4	73.8	74.7	76.7	77.6	78.3	79.9	80.9	80.7	79.4	77.8							112.1
(285. DEG K)	1000	71.1	74.3	75.7	76.2	77.6	79.1	81.4	82.7	81.9	78.7	76.3							112.9
TRET 47. DEG F	1250	73.4	75.9	77.4	77.7	80.4	82.3	84.2	85.2	84.9	81.9	78.3							115.5
(281. DEG K)	1600	81.9	85.4	90.2	87.0	89.5	92.6	91.9	93.2	94.7	87.2	85.3							124.6
HACT 6.65 GM/M3	2000	76.6	80.4	80.9	83.5	86.1	87.9	88.6	88.6	87.2	83.0	79.3							119.7
(.00665 KG/M3)	2500	75.9	80.4	80.9	85.8	87.2	88.6	89.6	89.6	89.9	83.8	79.6							120.9
NFA 6389. RPM	3150	78.9	82.9	84.9	89.6	91.2	91.9	92.8	94.1	93.9	89.0	84.3							124.7
(669. RAD/SEC)	4000	75.0	79.6	82.3	85.8	88.6	90.6	91.5	92.5	91.9	85.4	81.0							122.8
NFK 6426. RPM	5000	74.7	80.1	82.5	86.3	88.5	91.0	91.7	93.7	91.3	84.9	80.4							123.2
(673. RAD/SEC)	6300	73.0	77.9	79.9	84.4	87.0	88.7	89.4	91.5	89.8	83.1	79.7							121.2
NFB 8823. RPM	8000	71.2	75.8	78.9	82.9	85.6	87.1	89.0	90.7	88.7	82.5	79.3							120.3
(924. RAD/SEC)	10000	70.4	74.6	78.0	82.7	85.2	86.5	88.2	90.2	88.5	82.8	79.5							119.9
NO. OF BLADES 15	12500	69.6	73.3	76.5	82.0	83.8	85.4	87.6	89.3	86.7	80.7	81.8							119.1
FAN TIP SPEED	16000	66.4	70.0	73.2	77.9	80.8	82.8	84.9	86.8	84.3	78.3	82.2							116.8
558. FT/SEC	20000	65.4	69.1	73.1	77.5	79.9	81.9	84.6	87.2	84.5	78.4	82.8							117.2
	25000	65.1	67.9	71.3	75.8	78.7	80.6	83.3	84.8	82.6	76.7	81.9							116.1
	31500	64.7	67.8	70.8	75.1	77.8	80.0	81.6	84.1	82.3	75.9	80.8							116.1
	40000	65.6	66.4	69.1	73.1	75.4	77.8	80.5	81.4	79.8	74.7	75.1							115.3
	50000	67.9	65.8	69.3	70.4	72.7	74.9	78.4	77.8	76.5	72.3	72.6							114.4
	63000	70.3	66.9	70.0	68.5	71.1	71.6	73.7	72.5	72.0	70.0	70.5							113.9
	80000	73.3	71.5	72.6	71.1	73.3	73.0	73.2	73.2	72.5	72.7	71.0							119.5
OVERALL MEASURED																			
OVERALL CALCULATED		87.9	91.4	94.1	96.3	98.5	100.2	101.1	102.5	101.7	96.5	95.1							133.3
	PNDB	100.9	104.7	106.8	110.2	112.0	113.2	114.2	115.4	115.0	110.4	107.0							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE A-55
CONFIG 12
LOC SCHENECTADY
DATE 11/13/74
RUN 1002
TAPE
BAR 29.4 MG (99351. N/M2)
TAMB 53. DEG F (285. DEG K)
TWET 47. DEG F (281. DEG K)
HACT 6.65 GM/M3 (.00008 KG/M3)
NFA 6389. RPM (669. RAD/SEC)
NFK 6426. RPM (673. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 550. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	54. (1.19)	70. (1.36)	90. (1.53)	100. (1.71)	110. (1.98)	120. (2.06)	130. (2.24)	140. (2.42)	150. (2.60)	159. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	46.0	50.3	48.4	47.8	50.6	51.0	50.7	49.1	48.6	49.8	49.4						
125	44.6	48.0	50.1	49.7	50.1	49.9	49.0	51.1	50.2	49.6	48.5						
160	44.3	46.9	47.5	48.7	49.5	49.3	50.3	51.2	51.6	51.5	48.7						
200	44.5	46.3	47.7	49.3	51.1	52.7	52.7	53.8	52.7	52.8	50.0						
250	46.9	49.0	50.6	52.5	53.1	53.2	53.6	53.7	52.3	51.4	48.2						
315	47.8	50.7	51.5	53.2	53.5	53.8	54.0	53.6	52.7	51.7	47.7						
400	46.2	48.8	50.2	51.8	52.9	53.0	53.2	53.3	51.8	49.8	45.7						
500	45.1	47.5	48.3	51.0	52.6	52.7	53.1	52.7	50.9	48.9	44.2						
630	46.5	49.9	51.7	53.7	55.0	55.3	55.2	55.3	53.8	50.7	44.4						
800	48.4	50.7	52.1	54.3	55.1	55.5	56.3	56.1	54.1	50.2	44.0						
1000	47.0	51.1	53.0	53.7	55.0	56.1	57.7	57.7	55.2	49.2	42.2						
1250	49.1	52.5	54.6	55.1	57.7	59.2	60.3	60.0	58.0	51.2	43.8						
1600	57.4	61.8	67.2	64.2	66.8	69.3	67.8	67.8	67.5	57.1	50.3						
2000	51.9	56.7	57.7	60.8	63.1	64.4	64.4	63.1	59.7	52.5	43.7						
2500	51.0	56.5	57.5	62.7	63.9	65.0	65.1	63.8	62.2	52.9	43.4						
3150	53.6	58.7	61.2	66.2	67.7	67.9	68.0	67.9	65.7	57.6	47.3						
4000	49.3	54.9	58.2	62.0	64.7	66.2	66.2	65.8	63.0	53.2	42.8						
5000	48.7	55.1	58.2	62.2	64.7	66.4	66.1	66.7	62.1	52.2	41.5						
6300	46.2	52.2	54.9	59.6	62.1	63.3	63.1	63.6	59.5	49.0	38.7						
8000	43.0	48.9	52.4	57.0	59.7	60.6	61.4	61.4	56.7	46.2	35.1						
10000	40.5	46.1	50.3	55.3	57.7	58.4	58.9	58.9	54.2	43.5	30.8						
12500	36.1	42.4	46.6	52.4	54.1	54.9	55.8	55.1	49.0	38.9	26.4						
16000	29.5	35.2	39.5	44.7	47.4	48.5	49.0	48.0	40.9	27.2	16.1						
20000	22.9	29.1	34.6	39.8	41.7	42.7	43.2	42.2	33.7	17.7	2.4						
25000	14.6	20.6	25.9	31.1	33.7	34.2	34.2	31.0	21.3	2.4							
31500	2.2	9.8	15.2	20.5	22.8	23.1	21.1	17.4	5.5								
40000				3.7	5.5	5.4	3.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.7	67.2	70.5	72.3	74.4	75.6	75.5	75.3	73.0	65.3	59.4						
PNDB	75.6	80.4	83.3	86.7	88.4	89.2	89.3	89.1	86.7	79.0	70.2						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 22 HR. 11.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	66. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	70.2	70.8	71.9	73.3	73.5	74.0	74.7	75.1	76.4	81.2	84.8							110.2
VEHICLE R-55	125	73.0	78.1	78.2	77.1	77.8	78.0	78.9	78.1	78.9	81.2	84.6							112.8
CONFIG 12	160	72.0	73.1	72.9	74.1	75.5	75.5	77.7	78.9	80.9	83.2	84.8							112.0
LOC SCHENECTADY	200	72.0	71.8	72.2	74.3	77.0	78.2	79.4	81.1	82.2	84.4	86.1							113.4
DATE 11/13/74	250	74.0	74.8	76.4	78.6	79.0	79.2	80.9	81.4	82.2	84.2	85.3							114.2
RUN 16/3	315	75.0	75.8	76.7	79.1	79.3	80.0	80.7	81.4	82.2	83.7	84.3							114.2
TAPE	400	74.5	75.3	75.7	77.4	78.3	79.2	79.9	81.1	81.7	82.4	82.3							113.3
BAR 29.4 HG	500	72.8	73.8	74.4	77.4	78.0	79.0	80.2	80.9	80.7	81.7	81.3							112.7
(99351. N/M2)	630	74.8	75.6	77.2	79.4	80.3	81.3	81.9	83.1	83.2	83.0	81.6							114.7
TAMB 53. DEG F	800	78.8	76.3	77.9	81.1	81.8	82.5	83.4	84.9	83.7	82.4	81.1							115.9
(285. DEG K)	1000	75.3	76.1	78.4	79.1	80.1	82.0	83.9	85.6	84.7	81.4	79.8							115.7
TWET 47. DEG F	1250	75.4	78.1	79.2	80.2	82.1	84.3	86.4	87.4	86.4	82.5	80.1							117.5
(281. DEG K)	1600	78.6	82.4	83.4	85.2	87.4	88.8	89.9	90.9	90.4	84.2	81.3							121.4
HACT 6.68 GM/M3	2000	82.1	85.4	85.4	88.5	91.4	93.1	93.1	93.6	92.2	87.0	83.6							124.6
(.00668 KG/M3)	2500	80.1	83.9	84.9	89.5	90.9	91.6	92.4	93.3	91.2	85.8	82.1							123.9
NFA 7184. RPM	3150	79.8	83.4	85.9	89.8	92.4	93.6	93.6	94.8	93.7	87.7	83.5							125.4
(752. RAD/SEC)	4000	79.8	84.1	87.0	91.0	93.4	95.3	96.2	96.7	94.6	88.4	85.0							127.1
NFK 7226. RPM	5000	78.5	83.6	86.0	90.0	93.1	94.2	94.7	95.6	92.1	86.7	82.9							125.9
(757. RAD/SEC)	6300	77.0	81.6	84.4	88.3	90.9	92.4	93.2	95.0	91.3	85.9	82.0							124.6
NFD 8823. RPM	8000	76.1	80.0	82.9	87.6	89.6	91.3	92.2	93.9	90.4	85.3	81.6							123.7
(924. RAD/SEC)	10000	75.7	79.3	82.7	87.1	89.4	90.7	92.0	93.4	90.3	85.1	82.3							123.4
NO. OF BLADES 15	12500	74.6	77.0	81.3	86.4	88.8	89.6	91.1	92.8	88.5	84.0	82.8							122.7
FAN TIP SPEED	16000	72.6	74.5	78.2	82.1	85.3	87.0	88.4	91.1	86.0	81.8	84.2							120.6
627. FT/SEC	20000	72.8	74.1	77.6	81.5	84.6	86.2	88.9	90.7	87.0	81.1	85.8							120.9
	25000	73.9	72.9	76.0	81.0	83.5	85.0	87.5	89.1	86.1	80.5	86.4							120.4
	31500	73.6	72.6	75.3	80.1	82.7	84.5	86.1	87.8	84.8	79.1	86.1							120.3
	40000	74.0	70.2	73.8	78.3	80.9	82.8	84.7	85.6	82.8	77.5	86.1							120.0
	50000	77.4	68.6	72.0	76.8	79.0	80.9	83.2	82.3	79.8	75.3	86.4							120.2
	63000	79.7	67.6	70.5	76.5	79.1	79.1	81.2	79.0	74.8	72.0	85.0							121.4
	80000	83.3	72.7	72.6	80.1	81.0	82.0	82.7	82.1	74.7	73.7	78.2							127.1
OVERALL MEASURED																			
OVERALL CALCULATED		92.0	93.8	95.8	99.5	101.9	103.2	104.1	105.3	102.8	98.5	98.6							130.5
	PNDB	103.4	106.9	109.1	112.7	114.9	116.4	117.3	118.1	116.2	111.5	108.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 11.2

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.2	48.6	50.2	51.8	51.9	52.0	52.0	51.4	51.1	53.5	53.4						
VEHICLE R-SS	125	49.9	55.8	56.3	55.4	56.1	55.9	54.1	54.3	53.5	53.4	53.0						
CONFIG 12	160	48.8	50.7	51.0	52.4	53.7	53.3	54.8	54.9	55.3	55.2	52.7						
LOC SCHENECTADY	200	48.7	49.3	50.2	52.5	55.1	56.0	56.5	57.0	56.5	56.3	54.0						
DATE 11/13/74	250	50.6	52.2	54.3	56.7	57.8	56.9	57.9	57.2	56.3	55.9	53.0						
RUN 16/3	315	51.5	54.2	54.5	57.1	57.2	57.5	57.5	57.1	56.2	55.2	51.7						
TAPE	400	50.9	52.6	53.4	55.3	56.1	56.7	56.7	56.7	55.6	53.8	49.5						
BAR 29.4 HG	500	49.1	51.0	52.1	55.2	55.8	56.4	56.8	56.4	54.4	52.9	48.2						
(99351. N/M2)	630	51.0	52.6	54.7	57.1	59.0	58.5	58.4	58.5	56.8	53.9	48.1						
TAMB 53. DEG F	800	54.9	53.2	55.4	58.8	59.4	59.7	59.8	60.1	57.1	53.2	47.3						
(285. DEG K)	1000	51.2	52.9	55.7	56.6	57.5	59.1	60.2	60.7	57.9	51.9	45.7						
TWET 47. DEG F	1250	51.1	54.7	56.3	57.6	59.4	61.2	62.5	62.2	59.5	52.2	45.5						
(281. DEG K)	1600	54.1	56.8	60.4	62.4	64.5	65.5	65.8	65.5	63.2	54.1	46.3						
HACT 6.68 GM/M3	2000	57.4	61.7	62.2	65.5	68.3	69.6	68.8	68.0	64.7	56.5	48.0						
(.00668 KG/M3)	2500	55.2	60.0	61.5	66.4	67.7	67.9	67.9	67.5	63.4	54.9	45.9						
NFA 7184. RPM	3150	54.6	59.2	62.2	66.4	68.9	69.6	68.8	68.6	65.5	56.4	46.6						
(752. RAD/SEC)	4000	54.0	59.4	63.0	67.2	69.4	70.9	71.0	70.0	65.8	56.2	46.8						
NFK 7225. RPM	5000	52.5	58.6	61.7	65.9	68.9	69.6	69.1	68.6	62.8	53.9	44.0						
(757. RAD/SEC)	6300	50.2	55.9	59.4	63.6	66.1	67.1	66.8	67.0	61.0	51.7	41.0						
NFD 8823. RPM	8000	48.0	53.2	56.8	61.7	63.7	64.8	64.6	64.6	58.4	49.0	37.3						
(924. RAD/SEC)	10000	45.7	50.8	55.0	59.8	61.9	62.6	62.7	62.1	55.9	45.7	33.5						
NO. OF BLADES 15	12500	42.1	46.1	51.4	56.9	59.1	59.1	59.2	58.6	50.7	40.2	27.4						
FAN TIP SPEED	16000	35.8	39.7	44.5	48.9	51.9	52.8	52.4	52.2	42.6	30.7	18.1						
627. FT/SEC	20000	30.3	34.1	39.1	43.6	46.5	46.9	47.5	45.7	36.2	20.4	5.4						
	25000	23.3	25.6	30.6	36.3	38.5	38.6	38.4	35.2	24.8	6.1							
	31500	11.2	14.5	19.7	25.5	27.7	27.6	25.5	21.1	8.0								
	40000			2.9	8.9	11.0	10.3	7.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		65.5	69.4	71.6	75.2	77.4	78.3	78.1	77.7	73.8	67.4	62.6						
	PNDB	78.1	82.5	85.2	89.0	91.1	92.2	92.1	91.6	87.7	79.9	71.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
FREQ. 50																		
63																		
RADIAL 17. FT. 80																		
(5. MI) 100	71.5	73.8	74.9	75.1	75.8	76.2	76.9	85.4	80.1	84.3	88.8							114.5
VEHICLE R-55 125	78.5	77.8	76.1	77.6	79.8	81.0	81.2	86.1	83.1	85.1	88.8							116.2
CONFIG 12 160	74.5	76.5	76.1	77.3	78.5	78.5	80.4	87.1	84.1	85.8	88.5							116.2
LOC SCHENECTADY 200	74.5	75.5	75.6	77.1	79.5	81.2	81.9	90.1	85.1	87.5	90.3							118.1
DATE 11/13/74 250	78.0	79.3	80.4	81.8	83.5	84.0	85.7	89.6	86.3	87.8	89.8							119.1
RUN 16/4 315	78.2	79.8	80.1	81.6	82.5	83.0	83.9	88.9	85.3	86.5	88.0							118.2
TAPE 400	77.3	78.3	78.9	79.6	81.0	81.7	82.7	89.9	84.6	85.8	86.8							117.7
BAR 29.4 HG 500	75.8	77.5	77.4	79.1	80.8	81.5	83.4	89.6	83.8	84.8	85.0							117.2
(99351. N/M2) 630	77.1	79.0	79.6	81.9	83.1	84.0	84.9	88.6	85.8	85.3	85.3							118.1
TAMB 53. DEG F 800	80.3	81.3	82.1	83.1	84.3	84.5	86.2	95.4	86.6	85.8	85.8							121.5
(285. DEG K) 1000	77.6	79.8	81.1	82.1	83.3	84.5	86.1	94.9	86.8	84.1	83.3							120.9
TWET 47. DEG F 1250	78.4	80.8	81.6	82.9	84.8	86.8	88.4	98.1	88.1	84.1	83.3							123.5
(281. DEG K) 1600	78.9	82.8	83.6	84.7	87.1	88.8	90.1	93.1	89.1	84.4	82.3							121.9
HACT 6.68 GM/M3 2000	87.6	89.6	89.9	93.2	95.9	97.8	99.1	100.4	95.4	91.4	88.5							129.8
(.00858 KG/M3) 2500	83.6	87.6	87.4	91.5	93.9	94.3	95.4	98.8	92.6	88.6	85.8							127.3
NFA 7978. RPM 3150	82.1	86.3	88.6	91.5	94.7	94.6	95.1	100.3	94.1	89.1	86.0							128.1
(835. RAD/SEC) 4000	83.5	88.3	90.3	93.5	96.1	98.5	98.0	99.5	96.3	91.8	88.7							129.7
NFK 8025. RPM 5000	81.3	86.5	88.7	92.5	94.6	96.2	96.7	100.9	93.0	88.5	85.9							128.8
(840. RAD/SEC) 6300	80.5	86.3	88.4	92.6	94.9	96.2	96.7	102.0	93.2	88.5	87.2							129.4
NFD 8823. RPM 8000	79.4	84.0	86.7	90.5	92.9	94.3	95.7	98.7	91.8	87.4	86.5							127.3
(924. RAD/SEC) 10000	78.2	83.8	86.7	90.6	92.4	93.9	95.2	98.9	91.9	87.4	88.7							127.3
NO. OF BLADES 15 12500	78.1	82.0	85.0	89.2	91.1	94.1	95.1	98.3	90.9	86.6	91.7							127.0
FAN TIP SPEED 16000	74.6	79.2	82.4	86.1	88.8	90.2	92.2	94.8	88.2	83.4	90.7							124.2
696. FT/SEC 20000	74.3	78.8	82.6	85.5	88.1	90.9	92.6	96.4	89.4	84.0	92.0							125.5
25000	74.1	78.4	81.0	84.7	87.5	90.0	92.5	94.8	89.6	84.1	88.1							125.1
31500	74.4	77.7	80.0	83.8	86.5	88.7	90.3	92.8	88.2	82.7	82.3							124.3
40000	74.3	76.4	78.8	81.5	84.6	86.3	88.7	89.3	85.7	80.9	83.1							123.3
50000	76.6	75.5	78.2	79.3	81.5	83.9	86.7	86.8	83.5	79.7	82.1							122.9
63000	79.2	75.8	79.5	78.0	79.8	80.3	83.4	93.2	80.4	78.2	83.0							127.4
80000	83.3	79.9	82.5	80.8	81.5	82.2	83.9	89.1	81.6	81.3	80.9							130.3
OVERALL MEASURED																		
OVERALL CALCULATED	94.5	97.6	99.1	102.4	104.7	106.3	107.2	111.0	104.7	101.3	102.4							140.3
PNDB	107.1	110.7	112.2	115.3	117.6	119.4	119.6	123.2	117.0	114.4	112.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.5	51.5	53.1	53.5	54.1	54.2	54.2	61.6	54.8	56.7	57.4						
125	55.4	55.5	54.3	55.9	58.1	58.9	58.4	62.3	57.6	57.3	57.2						
160	51.3	54.1	54.2	55.6	56.7	56.3	57.6	63.2	58.5	57.8	56.7						
200	51.2	53.0	53.6	55.3	57.6	59.0	59.0	66.0	59.4	59.4	58.2						
250	54.6	56.7	58.3	59.9	61.5	61.6	62.6	65.4	60.5	59.5	57.4						
315	54.7	57.1	58.0	59.6	60.5	60.5	60.8	64.6	59.4	58.1	55.4						
400	53.7	55.5	56.6	57.5	58.9	59.2	59.4	65.5	58.5	56.9	53.9						
500	52.1	54.7	55.0	57.0	58.6	58.9	60.1	65.1	57.6	56.0	51.9						
630	53.2	56.1	57.2	59.8	60.7	61.3	61.4	64.0	59.5	56.3	51.9						
800	56.4	58.2	59.6	60.8	61.9	61.7	62.6	70.6	60.0	56.6	51.8						
1000	53.5	56.5	58.4	59.6	60.7	61.6	62.4	69.9	60.1	54.6	49.1						
1250	54.1	57.4	58.8	60.3	62.1	63.7	64.5	73.0	61.1	54.3	48.7						
1600	54.4	59.3	60.6	61.9	64.3	65.5	66.1	67.8	61.9	54.2	47.2						
2000	62.9	65.8	68.7	70.3	72.8	74.3	74.8	74.8	67.9	60.9	52.9						
2500	58.7	63.7	64.0	68.4	70.7	70.7	70.9	73.0	64.8	57.8	49.6						
3150	56.9	62.1	64.9	68.1	71.2	70.6	70.3	74.1	65.9	57.7	49.0						
4000	57.8	63.6	66.2	69.7	72.2	74.1	72.7	72.8	67.4	59.6	50.5						
5000	55.0	61.6	64.4	68.4	70.4	71.6	71.1	73.9	63.7	55.8	46.9						
6300	53.7	60.6	63.4	67.8	70.1	70.8	70.3	74.0	62.9	54.3	46.2						
8000	51.3	57.1	60.5	65.0	66.9	67.8	68.1	69.3	59.8	51.1	44.3						
10000	48.2	55.3	59.0	63.3	64.9	65.8	65.9	67.6	57.6	48.1	40.0						
12500	45.6	51.1	55.1	59.6	61.4	63.6	63.2	64.1	53.1	42.8	36.4						
16000	37.6	44.4	48.7	52.9	55.4	56.0	56.2	56.0	44.8	32.3	24.5						
20000	31.8	38.8	44.1	47.6	50.0	51.7	51.2	51.4	38.6	23.3	11.6						
25000	23.5	31.1	35.6	40.1	42.5	43.6	43.4	41.0	28.2	9.7							
31500	12.0	19.7	24.4	29.2	31.5	31.8	29.8	26.1	11.4								
40000		2.3	8.1	12.2	14.7	13.8	11.3	3.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.8	72.8	74.6	78.0	80.2	81.2	81.1	83.7	75.6	70.3	66.7						
PNDB	82.0	86.2	88.3	91.6	93.9	95.1	94.5	97.0	89.4	82.8	75.7						

SIDELINE 200. FT. (60.96 M)

VEHICLE ACOSS

CONFIG 12

LOC SCHENECTADY

DATE 11/13/74

RUN 1504

TAPE

BAR 29.4 HG (99351. N/M2)

TAMB 53. DEG F (285. DEG K)

TWET 47. DEG F (281. DEG K)

HACT 6.68 GM/M3 (.00668 KG/M3)

NFA 7978. RPM (835. RAD/SEC)

NFK 8025. RPM (840. RAD/SEC)

NFB 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 696. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.5	73.5	74.9	74.6	76.5	77.0	77.9	77.9	80.3	84.6	88.5							113.5
VEHICLE R-55	125	78.0	78.3	76.9	77.8	80.5	81.5	81.9	82.4	83.6	85.1	89.0							115.9
CONFIG 12	160	75.2	76.8	76.4	77.1	78.5	79.8	80.9	82.4	84.1	86.3	88.5							115.5
LOC SCHENECTADY	200	75.2	75.3	75.6	77.1	79.5	81.2	81.9	83.9	84.8	87.3	89.8							116.4
DATE 11/13/74	250	78.0	79.0	80.4	81.8	82.8	84.0	85.7	85.6	86.1	87.3	89.5							118.2
RUN 1905	315	78.0	79.8	79.9	80.8	82.3	83.0	83.9	84.9	85.3	86.5	88.0							117.3
TAPE	400	77.3	78.3	78.6	80.1	81.0	81.7	82.9	84.1	84.6	85.3	86.0							116.2
BAR 29.4 HG	500	75.5	77.3	77.9	79.6	81.0	82.3	82.7	84.1	83.8	84.6	85.0							115.8
(99351. N/M2)	630	76.8	79.0	79.6	81.9	83.1	84.0	84.9	86.1	85.6	85.6	85.1							117.5
TAMB 53. DEG F	800	79.8	81.5	82.1	82.9	83.8	84.8	85.9	87.1	86.6	85.8	85.3							118.5
(285. DEG K)	1000	77.3	79.8	81.1	81.9	83.1	84.3	85.6	87.4	86.6	83.3	83.0							117.9
TWET 47. DEG F	1250	78.1	80.8	81.6	83.2	84.6	87.0	88.6	89.6	88.1	84.3	83.0							119.8
(281. DEG K)	1600	78.9	82.6	83.9	85.2	87.1	88.6	89.4	90.1	88.6	84.1	81.8							120.9
HACT 6.65 GM/M3	2000	87.6	90.1	90.9	93.7	96.4	98.3	99.9	98.9	96.1	91.8	87.8							130.0
(.00808 KG/M3)	2500	83.1	87.6	87.6	92.3	93.9	94.1	95.4	96.6	92.6	88.4	85.3							128.7
NFA 7980. RPM	3150	81.8	86.6	88.6	92.0	94.4	94.8	95.1	96.8	93.8	89.1	86.0							127.0
(836. RAD/SEC)	4000	82.5	88.3	90.5	94.0	95.6	98.5	98.2	99.0	96.0	91.3	88.4							129.6
NFK 8027. RPM	5000	81.0	86.5	89.9	93.0	95.1	96.7	96.9	97.6	93.0	88.3	85.1							128.1
(840. RAD/SEC)	6300	80.5	85.8	89.1	92.3	94.9	95.9	96.7	98.7	92.5	88.7	86.0							128.1
NFB 8023. RPM	8000	79.6	83.7	87.2	90.8	92.9	94.1	95.2	96.9	92.1	87.2	85.0							126.6
(924. RAD/SEC)	10000	77.7	83.0	86.7	90.1	92.4	93.7	95.5	96.7	92.4	87.2	86.0							126.5
NO. OF BLADES 15	12500	77.9	81.7	85.0	89.2	91.6	93.8	95.1	96.5	90.9	86.3	87.5							126.3
FAN TIP SPEED	16000	74.6	78.7	82.1	85.8	88.5	90.0	92.2	93.3	88.2	83.9	86.7							123.5
697. FT/SEC	20000	74.6	78.8	82.1	85.7	88.4	90.7	92.4	93.7	89.2	84.0	84.7							124.2
	25000	74.4	78.4	81.0	85.2	87.5	89.8	92.5	93.3	89.1	83.6	81.3							124.4
	31500	73.6	77.5	80.0	84.1	86.3	88.7	90.3	91.8	88.0	82.7	80.8							123.8
	40000	74.3	75.9	78.8	81.8	83.9	86.6	88.7	89.1	86.0	81.1	78.8							123.1
	50000	76.6	76.3	78.7	79.3	81.5	83.9	86.9	86.1	83.2	79.4	76.8							122.7
	63000	79.2	76.3	79.7	78.0	81.1	83.1	84.2	81.5	81.2	78.2	77.8							123.7
	80000	83.3	79.9	82.5	80.3	85.0	86.5	87.7	84.6	83.1	81.3	80.9							131.8
OVERALL MEASURED																			
OVERALL CALCULATED		94.3	97.6	99.4	102.6	104.8	106.4	107.4	108.3	104.7	101.2	100.8							139.8
	PNDB	106.9	110.6	112.4	115.6	117.4	119.4	119.8	120.7	117.8	114.1	112.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	60. (1.02)	66. (1.19)	72. (1.36)	78. (1.53)	84. (1.71)	90. (1.88)	96. (2.06)	102. (2.24)	108. (2.42)	114. (2.60)	120. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.5	51.3	53.1	53.0	54.9	55.0	55.2	54.1	55.0	56.9	57.1						
125	54.9	56.0	55.0	56.2	58.8	59.4	59.1	58.5	58.1	57.3	57.4						
160	52.0	54.4	54.5	55.4	57.0	56.8	58.1	58.4	58.5	58.3	56.7						
200	51.9	52.8	53.6	55.3	57.6	59.0	59.8	59.8	59.1	59.2	57.7						
250	54.6	56.4	58.3	59.9	60.8	61.6	62.6	61.4	60.3	59.0	57.2						
315	54.5	57.1	57.7	58.9	60.2	60.5	60.8	60.6	59.4	58.1	55.4						
400	53.7	55.5	56.4	58.0	58.9	59.2	59.7	59.7	58.5	56.7	53.2						
500	51.8	54.4	55.5	57.3	58.8	59.6	59.3	59.6	57.6	55.7	51.9						
630	53.0	56.1	57.2	59.6	60.7	61.3	61.4	61.5	59.2	56.5	51.8						
800	55.9	58.4	59.6	60.5	61.4	61.9	62.3	62.3	60.0	56.3	51.5						
1000	53.2	56.5	58.4	59.4	60.5	61.3	61.9	62.4	59.8	53.8	48.9						
1250	53.8	57.4	58.8	60.6	61.9	63.9	64.8	64.5	61.1	54.6	48.5						
1600	54.4	59.8	60.9	62.4	64.3	65.3	65.3	64.8	61.4	54.0	46.7						
2000	62.9	66.5	67.7	70.8	73.3	74.8	75.6	73.3	68.6	61.1	52.2						
2500	58.2	63.7	64.2	69.1	70.7	70.4	70.9	70.8	64.8	57.5	49.1						
3150	56.6	62.4	64.9	68.6	70.9	70.6	70.3	70.6	65.6	57.7	49.0						
4000	56.8	63.6	66.4	70.2	71.7	74.1	73.0	72.3	67.2	59.1	50.2						
5000	55.0	61.6	64.6	68.9	70.9	72.1	71.4	70.6	63.7	55.6	46.2						
6300	53.7	60.1	63.1	67.6	70.1	70.6	70.3	70.8	62.1	54.0	44.9						
8000	50.5	56.8	61.0	65.0	66.9	67.6	67.6	67.6	60.1	50.9	40.8						
10000	47.7	54.5	59.0	62.8	64.9	65.6	66.2	65.4	58.1	47.6	37.2						
12500	45.3	50.8	55.1	59.6	61.9	63.4	63.2	62.4	53.1	42.5	32.1						
16000	37.8	43.9	48.5	52.8	55.2	55.8	56.2	54.5	44.8	32.8	20.5						
20000	32.1	38.8	43.6	47.8	50.2	51.4	51.0	48.7	38.4	23.3	4.4						
25000	23.8	31.1	35.6	40.6	42.5	43.4	43.4	39.5	27.7	9.2							
31500	11.2	19.4	24.4	29.5	31.0	31.8	29.8	24.0	11.2								
40000		1.8	8.1	12.4	14.0	14.1	11.3	3.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.6	72.9	74.9	78.3	80.3	81.3	81.3	80.6	75.6	70.2	66.4						
PNDB	81.9	87.2	88.5	91.9	93.7	95.1	94.7	94.1	89.3	82.5	75.2						

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 12
LOC SCHENECTADY
DATE 11/13/74
RUN 165
TAPE
BAR 29.4 HG (99351. N/M2)
TAMB 53. DEG F (285. DEG K)
TWET 47. DEG F (281. DEG K)
HACT 6.68 GM/M3 (.00665 KG/M3)
NFA 7980. RPM (836. RAD/SEC)
NFK 6027. RPM (840. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 607. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 11 DAY 22 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	64. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	139. (2.42)	149. (2.60)	159. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.0	74.3	77.4	78.6	78.5	77.0	72.9	68.7	70.9	75.2	76.8							110.0
VEHICLE R-SS	125	66.3	66.6	69.7	67.9	69.3	68.0	68.4	70.9	72.2	73.9	75.8							104.2
CONFIG 12	160	64.5	66.1	66.4	67.1	68.8	69.3	69.7	71.2	72.9	75.7	75.8							104.4
LOC SCHENECTADY	200	64.3	66.1	66.7	67.6	70.0	71.3	72.4	74.4	75.2	77.2	78.3							108.4
DATE 11/13/74	250	66.0	68.1	68.9	70.4	72.9	72.0	73.2	73.9	74.4	75.7	76.8							108.4
RUN 16/6	315	67.8	69.8	70.9	71.6	72.5	73.0	73.4	74.2	74.9	76.4	76.1							107.0
TAPE	400	67.1	69.6	69.7	70.7	72.0	73.0	73.4	74.7	74.7	74.9	74.3							106.5
BAR 29.4 HG	500	65.8	67.8	68.4	70.4	72.6	72.6	73.4	74.2	73.4	74.4	73.1							106.0
(99351. N/M2)	630	67.1	70.4	70.9	73.4	74.1	75.1	75.9	76.9	77.4	77.5	74.8							108.7
TAMB 53. DEG F	800	70.1	72.1	73.2	74.4	75.6	76.1	77.2	79.4	79.2	79.2	74.8							110.2
(285. DEG K)	1000	69.6	71.1	73.2	73.9	74.8	76.6	78.4	79.7	79.8	77.4	72.8							110.3
TWET 47. DEG F	1250	73.1	76.1	78.2	78.7	80.6	81.8	83.9	85.2	86.2	84.2	78.3							116.0
(281. DEG K)	1600	73.4	77.4	78.9	79.8	81.9	83.4	84.4	86.4	86.4	83.7	77.1							116.7
HACT 6.68 GM/M3	2000	73.6	77.1	77.9	80.5	83.4	84.9	85.6	85.4	84.9	81.0	76.6							116.8
(.00668 KG/M3)	2500	74.9	79.2	79.6	83.3	86.2	88.1	88.4	89.1	89.9	83.8	79.3							120.1
NFA 5591. RPM	3150	74.6	78.4	79.9	83.3	85.7	87.9	88.6	89.6	91.2	85.0	80.3							120.5
(585. RAD/SEC)	4000	71.8	77.4	79.3	82.8	85.4	87.3	88.3	89.8	89.4	84.2	78.7							119.9
NFK 5624. RPM	5000	70.2	75.1	77.2	81.0	84.3	86.3	86.9	88.4	88.1	81.7	76.7							118.5
(589. RAD/SEC)	6300	69.3	73.1	75.4	79.9	83.0	85.0	86.2	87.7	87.0	80.9	76.0							117.6
NFD 8823. RPM	8000	67.7	71.0	73.9	78.9	81.4	82.6	84.7	86.2	86.7	79.8	74.3							116.4
(924. RAD/SEC)	10000	66.2	69.8	72.5	77.9	80.4	82.7	84.7	86.2	85.8	79.3	74.3							116.1
NO. OF BLADES 15	12500	65.9	68.5	71.5	77.5	80.6	81.4	83.8	86.0	84.2	78.5	73.3							115.6
FAN TIP SPEED	16000	63.1	65.2	68.4	73.9	77.0	78.5	81.4	83.6	82.3	75.8	70.7							113.3
488. FT/SEC	20000	62.6	64.3	67.6	73.5	75.6	77.7	80.1	83.5	82.0	75.4	70.3							113.2
	25000	62.9	64.9	66.3	71.8	44.2	76.1	78.6	80.1	79.9	73.5	68.1							114.0
	31500	61.9	64.6	66.8	70.9	73.5	75.8	77.6	79.6	79.5	72.9	67.1							112.0
	40000	62.8	63.9	65.3	68.6	71.4	73.3	76.0	77.4	76.8	71.2	66.4							111.2
	50000	65.4	65.1	66.0	67.4	69.2	71.2	73.7	73.4	73.8	69.6	65.1							110.6
	63000	68.0	65.9	66.3	66.8	68.3	69.9	71.2	69.8	69.8	68.8	66.5							111.7
	80000	73.3	70.0	72.6	70.1	71.3	73.0	73.7	72.4	72.2	71.9	71.0							119.3
OVERALL MEASURED																			
OVERALL CALCULATED		84.5	87.5	89.3	92.1	95.0	96.3	97.4	98.7	98.8	94.1	90.2							129.8
	PNOB	97.1	100.7	102.3	105.4	107.7	109.5	110.4	111.5	112.3	107.4	103.3							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 11 DAY 22 NO. 11.3

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.92)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
80																	
100	49.0	52.1	55.7	57.1	56.9	55.0	50.2	44.9	45.6	47.5	45.4						
125	43.1	44.3	47.8	48.2	47.6	45.9	45.7	47.1	46.7	46.1	44.2						
160	41.3	43.7	44.5	45.4	47.3	46.1	46.8	47.2	47.3	47.7	44.0						
200	41.8	43.6	44.7	45.8	48.1	49.0	49.5	50.3	49.5	49.1	46.2						
250	42.6	45.5	46.8	48.5	50.1	49.7	50.1	49.7	48.6	47.4	44.5						
315	44.3	47.2	48.7	49.7	53.5	50.6	53.3	49.9	49.0	48.0	43.5						
400	43.4	45.8	47.4	48.6	49.9	50.5	50.2	50.3	48.6	48.3	41.5						
500	42.1	45.0	46.1	48.3	50.3	49.9	50.1	49.7	47.2	45.8	39.9						
630	43.3	47.4	48.5	51.2	51.7	52.3	52.5	52.3	51.0	48.4	41.1						
800	46.1	49.0	50.6	52.1	53.1	53.2	53.6	54.6	52.6	48.9	41.0						
1000	44.5	47.9	50.5	51.4	52.2	53.6	54.7	54.7	53.2	47.9	38.7						
1250	48.9	52.7	55.3	56.1	57.9	58.7	60.0	60.8	59.2	54.4	43.6						
1600	49.9	53.8	55.9	57.0	59.0	60.1	60.3	61.1	59.2	53.6	42.0						
2000	48.9	53.4	54.7	57.6	60.3	61.4	61.4	59.8	57.4	50.5	41.0						
2530	50.0	54.2	56.3	60.2	62.9	64.5	63.9	63.3	62.2	52.9	43.2						
3150	49.4	54.2	56.2	59.9	62.2	63.9	63.0	63.4	63.0	53.5	43.3						
4000	46.1	52.7	55.2	59.0	61.5	62.9	63.0	63.1	60.5	52.3	40.5						
5050	44.2	50.1	52.9	57.0	60.2	61.6	61.4	61.4	58.8	46.9	37.7						
6300	42.5	47.4	50.4	55.1	58.1	59.6	59.0	59.0	56.7	40.7	35.0						
8000	39.5	44.2	47.8	53.0	55.4	56.1	57.1	56.9	54.7	43.5	30.1						
10030	36.3	41.3	44.8	50.6	53.0	54.6	55.4	54.9	51.4	40.0	25.5						
12500	33.3	37.6	41.6	47.9	51.1	50.9	52.0	51.9	46.5	34.7	17.9						
16000	26.3	31.4	34.8	40.7	43.7	44.3	45.5	44.8	38.9	24.7	4.8						
20000	20.1	24.4	29.1	35.6	37.5	38.4	38.7	38.5	31.2	14.7							
25000	12.3	17.6	20.9	27.1	30.2	29.7	29.4	26.3	18.5								
31500		6.5	10.4	16.3	18.5	18.9	17.1	12.9	2.7								
40000					1.5	6.9											
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.1	63.3	65.6	68.4	70.6	71.8	71.8	71.6	69.9	63.8	55.5						
PNDB	71.8	76.4	78.6	81.9	84.1	85.5	85.5	85.2	83.8	76.8	66.3						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA ECONOMY MODEL

MODEL SUCTION PRESSURE LEVELS (SPL, DB, RE 20 MICRO PASCALS, RMS, FAT)
ANGLES FROM INLET IN DEGREES (APP PARTIAL)

	FREQ.	30. (1.52)	40. (1.19)	50. (1.00)	60. (1.53)	70. (1.73)	100. (1.00)	110. (2.08)	120. (1.42)	130. (2.11)	140. (2.85)	0. 110.	10. 110.	20. 110.	30. 110.	40. 110.	50. 110.	60.	PWL
	50																		
	53																		
RADIAL 17. FT.	80																		
(5. M)	100	67.3	71.8	75.7	77.6	77.8	78.0	73.2	69.4	71.4	76.4								140.5
VEHICLE SPEED	125	65.9	69.1	72.4	74.1	69.9	69.3	65.4	71.2	71.7	73.9								139.5
CORE IG 13	160	64.3	66.3	68.4	70.2	67.5	68.3	69.2	71.7	72.6	75.5								139.0
LOC SCHEDULED	200	64.8	66.8	68.4	69.1	73.3	71.3	73.9	74.4	75.2	78.9								140.0
DATE 11/13/74	250	67.2	69.8	69.7	71.1	74.9	72.6	73.7	73.5	74.7	76.4								144.0
RUN 1574	315	67.8	70.3	70.4	71.5	72.3	72.5	73.8	74.4	74.7	76.4								145.0
TAPE	400	66.8	70.8	69.4	70.4	71.3	72.3	73.2	74.4	74.5	75.2								140.1
BAR 29.3 IN	500	65.6	67.1	67.2	68.9	71.1	71.0	73.7	74.4	74.2	74.9								140.0
(99812. N/M2)	630	66.9	69.6	70.2	72.2	74.3	75.3	78.4	77.7	77.4	77.5								140.6
TAMB 46. DEG F	800	70.4	71.6	72.9	73.9	75.3	76.8	78.2	78.2	79.7	78.7								141.2
(283. DEG K)	1000	67.9	73.3	72.2	73.7	75.3	77.1	76.7	79.7	80.2	76.2								141.4
TACT 49. DEG F	1250	74.4	77.1	77.9	79.5	81.5	82.3	84.4	85.4	84.4	85.2								140.4
(282. DEG K)	1600	72.4	76.4	77.9	80.2	81.5	83.1	84.6	84.2	84.2	85.7								140.2
HACT 64.9 GM/M3	2000	72.6	75.1	77.4	81.1	84.4	86.8	85.9	85.4	84.2	81.2								140.6
(.00009 KG/M3)	2500	73.8	78.2	80.9	84.6	86.4	87.4	88.8	89.8	88.4	84.8								140.4
NFA 5552. RPM	3150	73.1	77.9	80.4	84.2	86.7	87.1	88.8	89.3	90.7	84.5								140.2
(581. RAD/SEC)	4000	71.8	77.1	80.8	83.6	85.9	87.3	89.5	91.6	90.1	86.8								140.6
NFX 5666. RPM	5000	67.7	75.1	78.8	81.2	84.9	86.5	87.2	88.6	88.8	87.6								141.6
(587. RAD/SEC)	6300	69.6	73.9	76.4	80.9	83.4	84.7	86.7	88.6	88.8	91.5								140.1
NFC 6023. RPM	8000	66.9	72.9	75.2	79.1	81.8	83.1	85.2	86.4	87.8	89.8								140.5
(924. RAD/SEC)	10000	66.4	70.8	73.9	76.2	80.4	82.7	84.5	86.4	87.6	88.3								140.6
NO. OF BLADES 15	12500	66.1	69.5	73.0	74.9	79.9	81.1	84.0	84.3	87.7	89.7								140.2
FAN TIP SPEED	16000	63.3	68.4	69.6	72.9	77.3	79.5	81.4	83.8	86.2	88.2								140.4
485. FT/SEC	20000	63.8	66.3	68.5	72.9	75.3	77.6	81.1	84.4	86.7	89.0								140.6
	25000	64.5	65.6	68.9	71.2	73.9	75.7	78.2	84.2	84.5	73.5								141.6
	31500	64.3	64.7	68.4	73.8	72.9	75.4	77.2	79.5	83.4	73.2								141.6
	40000	65.4	64.3	66.4	67.9	70.7	72.7	75.3	76.7	80.4	71.3								141.4
	50000	64.7	65.8	68.8	67.1	69.8	70.2	73.5	72.9	82.1	69.3								141.4
	63000	70.9	66.3	70.2	67.5	69.3	69.3	71.4	69.2	77.6	68.6								141.6
	80000	72.9	69.6	72.2	70.8	71.4	71.6	72.1	71.8	72.8	71.5								140.3
OVERALL MEASURED																			
OVERALL CALCULATED		84.2	87.3	89.5	92.7	95.3	96.8	97.8	99.1	99.6	94.6								150.2
	PWL	98.3	100.5	102.7	106.1	108.3	109.2	111.9	112.2	112.3	107.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SCALE PRESSURE LEVELS (PSF, ABS, PT, OR PERCENT DEL. PRESS. [AVG])

	FREQ.	7a. (1.02)	8a. (1.19)	9a. (1.36)	10a. (1.53)	11a. (1.7)	12a. (1.88)	13a. (2.05)	14a. (2.24)	15a. (2.42)	16a. (2.6)	17a.	18a.	19a.	20a.	21a.	22a.	23a.
	SC																	
	63																	
SIDELINE 288. FT.	66																	
(88.96 M)	100	41.2	48.6	53.9	56.3	56.1	54.6	52.9	49.6	46.1	40.8							
VEHICLE RUSS	125	41.8	48.8	48.6	47.5	47.3	47.2	44.7	47.3	45.2	44.1							
CONFIG 13	150	41.1	43.9	43.5	44.5	45.8	46.1	44.8	47.2	47.3	44.8							
LOC SCHENECTADY	200	41.5	44.3	44.4	46.3	49.1	49.5	48.2	50.3	50.5	44.9							
DATE 11/13/74	250	44.1	46.2	47.5	49.2	48.8	49.7	50.6	49.7	48.9	44.1							
RUN 1974	315	44.3	47.7	48.2	49.7	50.7	50.1	50.3	51.1	49.7	44.6							
TAPE	400	43.2	48.1	47.2	48.3	48.2	49.8	48.6	50.6	48.8	44.9							
BAR 29.3 HG	500	41.9	44.2	44.8	44.8	44.8	47.2	50.2	49.8	47.8	44.1							
(99312. N/M2)	630	43.8	48.6	47.7	47.9	52.6	52.8	53.8	53.6	51.6	46.8							
TAMB 49. DEG F	630	46.4	48.5	50.4	51.8	52.9	54.6	54.8	54.6	53.1	49.8							
(283. DEG K)	1000	43.7	47.1	49.5	51.2	52.7	54.1	54.8	54.7	53.8	49.7							
TMET 49. DEG F	1250	51.1	53.7	55.1	56.9	58.9	59.2	60.5	61.3	59.8	55.8							
(280. DEG K)	1600	47.8	52.3	54.8	57.2	58.5	59.8	60.8	60.8	59.7	53.8							
MACT 6.69 GM/M3	2000	47.8	51.4	54.2	56.3	61.3	61.1	61.6	63.4	62.2	54.9							
(.00660 LB/FT3)	2500	48.8	54.2	57.5	61.4	63.2	63.7	64.4	63.6	62.7	58.8							
NFA 5582. RPM	3150	47.9	53.7	56.7	60.9	63.2	63.1	64.5	63.7	62.5	58.1							
(584. RAD/SEC)	4000	46.1	52.4	56.8	59.7	62.5	62.9	64.2	64.3	61.2	57.2							
NFK 5686. RPM	5000	43.7	50.1	53.7	57.7	60.7	61.0	61.8	61.8	59.6	49.6							
(595. RAD/SEC)	6300	42.2	48.2	51.4	54.1	58.8	59.3	60.3	60.8	57.7	47.5							
NFB 6423. RPM	8000	38.8	45.1	48.8	50.3	53.6	54.0	57.8	57.1	55.8	44.5							
(672. RAD/SEC)	10000	36.5	42.3	46.3	51.2	52.5	54.1	55.1	55.1	53.4	40.8							
NO. OF BLADES 15	12500	33.6	38.6	43.1	47.4	50.1	50.0	52.2	52.1	49.4	34.6							
FAN TIP SPEED	16000	26.5	31.6	36.8	40.6	43.6	44.2	45.4	45.6	42.8	25.2							
485. FT/SEC	20000	21.3	26.1	30.8	35.2	37.2	39.4	39.7	39.4	35.9	15.4							
	25000	14.8	18.3	21.5	26.5	28.9	29.3	29.1	28.4	23.2								
	31500	2.1	6.8	10.8	15.4	17.9	18.5	18.7	12.8	6.6								
	40000					6.6	6.2											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		58.5	63.3	65.7	69.8	71.8	71.5	72.2	71.9	70.2	61.5							
PASS		78.9	78.1	78.9	82.6	84.7	85.0	85.0	85.7	84.2	78.1							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

FREQ. DATA = MONTH 11 DAY 22 HR. 15.0

NOISE SOURCE PRESSURE LEVELS 1/3 OCTV. BD, FC 70 PERCENT ELLIPSOIDAL (Ayl)

ANGLES FROM INLET TO MICROPHONE (ARC RADIANS)

		50. (1.02)	60. (1.17)	70. (1.35)	80. (1.57)	90. (1.75)	100. (1.98)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.62)	0. (0.)	10. (10.)	20. (20.)	30. (30.)	40. (40.)	50. (50.)	60. (60.)	PWL
	FREQ.																		
	50																		
	63																		
RADIAL 17. FT.	80																		
S. HT	100	71.0	73.6	71.7	70.9	73.3	72.3	71.9	71.9	72.8	74.2								166.6
VEHICLE R=55	125	67.5	70.5	72.4	71.4	72.5	72.0	71.9	73.9	75.7	78.4								167.6
CONFIG 13	160	67.5	69.6	69.4	69.9	70.8	71.0	72.7	72.9	74.7	79.4								168.6
LOC SCHENECTADY	200	68.0	69.1	69.4	71.1	73.5	75.0	75.4	77.9	78.7	81.2								169.6
DATE 11/13/74	250	70.0	71.6	72.9	74.4	74.9	75.0	76.7	77.2	77.6	80.2								169.6
RUN 15/5	315	71.5	73.3	73.9	74.6	76.0	76.3	76.4	77.9	78.7	80.2								170.6
TAPE	400	70.3	71.6	72.4	73.4	74.5	75.5	75.9	77.7	77.6	78.4								169.1
BAR 29.3 HG	500	69.3	70.1	70.2	72.2	73.6	75.0	76.4	77.4	77.2	78.2								168.6
(98912. N/M2)	630	69.9	71.8	72.7	75.2	77.1	78.1	79.2	80.4	80.4	80.0								171.6
TAMB 49. DEG F	800	71.6	73.1	74.7	76.2	77.3	78.6	79.9	81.2	80.6	80.2								172.1
(283. DEG K)	1000	72.9	72.8	74.7	76.2	77.5	79.9	81.4	82.4	82.4	79.4								172.6
TWET 45. DEG F	1250	72.4	74.6	76.4	78.2	80.6	82.3	84.0	85.4	85.0	81.7								175.6
(280. DEG K)	1600	73.1	83.4	87.9	85.4	87.4	92.1	93.6	94.2	93.6	89.7								180.6
HACT 6.00 GM/M3	2000	75.4	78.2	83.4	84.3	86.6	89.1	88.6	88.6	87.9	82.5								175.6
(.00669 KG/M3)	2500	74.9	78.9	81.6	86.1	87.9	89.9	89.6	90.0	90.2	84.6								176.6
NFA 6345. RPM	3150	74.9	82.1	85.6	89.4	91.2	91.6	91.6	94.8	94.2	88.7								179.6
(664. RAD/SEC)	4000	74.3	80.4	83.0	86.4	89.4	90.6	92.2	92.7	91.6	85.4								178.1
NFK 6407. RPM	5000	74.2	80.3	83.5	87.0	89.8	91.0	92.2	93.2	91.3	85.4								178.6
(671. RAD/SEC)	6300	73.3	77.9	81.2	85.1	87.2	88.7	90.4	92.0	90.0	84.1								176.6
NFD 8823. RPM	8000	71.4	76.3	79.9	83.6	86.1	87.9	89.2	90.7	89.1	83.3								174.6
(924. RAD/SEC)	10000	70.9	75.1	79.4	83.1	85.2	86.7	88.7	90.7	90.0	83.3								174.6
NO. OF BLADES 15	12500	69.6	73.7	77.5	81.7	84.3	85.1	88.0	89.5	87.5	81.7								172.6
FAN TIP SPEED	16000	66.6	70.7	74.6	78.6	81.2	83.6	85.4	87.5	85.2	78.7								169.6
554. FT/SEC	20000	63.8	69.8	73.5	77.4	80.3	82.9	85.1	86.7	85.7	79.6								169.6
	25000	66.3	68.3	71.7	75.5	78.1	80.5	83.0	84.5	84.0	77.1								167.6
	31500	66.0	67.7	70.6	74.7	77.4	79.6	82.2	83.5	82.4	76.6								165.6
	40000	67.1	66.5	69.1	72.4	74.7	77.2	80.1	80.7	80.6	74.3								164.6
	50000	73.2	66.6	69.3	69.4	72.5	74.2	77.2	76.9	74.6	71.8								163.6
	63000	71.9	67.1	70.5	68.2	71.3	71.1	73.4	71.5	72.0	69.0								163.6
	80000	73.9	70.6	72.2	70.9	73.2	72.1	73.6	72.5	72.1	71.5								169.6
OVERALL MEASURED																			
OVERALL CALCULATED		87.2	90.7	93.8	96.5	98.6	100.2	101.8	102.8	102.1	97.1								183.6
	PWL	99.7	104.1	107.6	110.4	112.1	113.1	115.3	115.9	115.7	110.9								

PAGE 3 FULL SCALE DATA PREDICTION PROGRAM

FULL SCALE = AGATE 11 DAY 22 MAY 15.0

NOISE SOUND PRESSURE LEVELS (DB re .0002 DYNE/CM**2) FOR 70 PERCENT OCTAVE BAND DATA

ANGLES FROM INLET TO DIAGONALS (DEGREES)

FREQ.	50. (1.02)	60. (1.29)	70. (1.30)	80. (1.33)	90. (1.41)	100. (1.00)	110. (4.06)	120. (4.04)	130. (4.02)	140. (4.03)	0.	10.	20.	30.	40.	50.	60.
50																	
63																	
SIDELINE 200. FT.																	
(60.95 M) 100	46.0	51.3	49.5	48.3	51.6	52.2	50.2	48.1	47.6	50.5							
VEHICLE R-55 125	44.4	48.3	53.6	49.7	50.3	49.6	49.2	50.1	50.2	50.6							
CONFIG 13 160	44.3	47.2	47.5	48.2	49.3	48.6	49.8	50.2	51.1	51.5							
LOC SCHENECTADY 200	44.7	46.6	47.4	48.3	51.3	52.7	52.5	53.6	53.6	53.1							
DATE 11/13/74 250	45.6	49.0	50.8	52.5	52.5	54.7	53.0	53.0	52.1	51.9							
RUN 15/5 315	48.0	50.7	51.7	52.7	54.0	53.8	53.3	53.6	52.7	51.7							
TAPE 400	46.7	48.8	50.2	51.8	52.4	53.6	52.7	53.3	51.8	49.8							
BAP 29.3 HG 500	44.6	47.2	47.8	50.2	51.3	52.0	53.1	52.6	50.0	49.4							
(99312. N/M2) 630	46.0	48.9	50.2	53.2	54.7	55.3	55.7	54.8	54.5	50.9							
TAMB 49. DEG F 800	47.6	50.8	52.1	53.9	54.9	55.7	55.3	54.4	54.4	50.9							
(283. DEG K) 1000	46.7	49.6	52.0	53.7	55.0	56.0	57.7	57.5	55.7	49.9							
THET 45. DEG F 1250	48.1	51.2	53.6	55.4	57.9	59.2	59.0	56.3	56.0	51.9							
(280. DEG K) 1600	55.7	59.8	64.9	63.6	64.5	66.8	66.3	62.8	60.7	56.6							
MACT 6.69 GM/M3 2000	50.7	55.1	57.2	61.3	63.6	64.8	64.3	63.1	60.4	52.0							
(.00669 KG/M3) 2500	50.8	55.8	58.3	62.9	64.7	65.2	65.1	65.1	62.4	53.9							
NFA 6345. RPM 3150	51.6	57.9	62.0	64.4	67.7	67.6	70.8	68.7	67.6	57.3							
(664. RAD/SEC) 4000	48.6	55.7	59.3	63.2	65.5	66.2	67.0	66.0	63.6	53.2							
NFK 6407. RPM 5000	49.2	55.4	58.2	63.3	65.7	66.3	66.6	66.2	62.1	52.7							
(671. RAD/SEC) 6300	46.4	52.2	56.1	60.4	62.3	63.3	64.1	64.0	59.7	50.0							
NFD 8823. RPM 8000	43.3	49.2	53.8	57.8	60.1	61.3	61.8	61.8	57.1	47.0							
(924. RAD/SEC) 10000	41.8	46.6	51.8	55.8	57.7	59.6	59.4	59.4	55.7	43.9							
NO. OF BLADES 15 12500	37.1	42.9	47.6	52.1	54.6	55.6	56.2	55.4	49.2	37.9							
FAN TIP SPEED 16000	29.7	35.9	41.7	45.4	47.9	48.7	49.4	48.7	41.6	27.7							
954. FT/SEC 20000	23.3	29.8	35.6	39.5	42.2	43.0	43.7	41.6	34.8	18.4							
25000	15.7	21.8	26.3	30.8	33.1	34.1	33.8	30.7	22.7	2.8							
31500	3.6	9.6	15.8	20.1	22.4	22.7	21.7	16.8	5.8								
40000				3.0	4.8	4.7	2.6										
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.7	66.3	69.9	72.5	74.4	75.6	76.2	75.7	73.2	60.0							
PNCB	74.4	79.8	83.3	86.9	88.5	89.1	90.4	89.6	87.4	79.2							

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (DB, REF. 0.0002 DYNES/SQ CM, FAY)

FREQUENCIES FROM 1/3 TO 1/3 OCTAVE (ZERO PARAMETER)

	FREQ.	50. (1.02)	63. (1.29)	80. (1.63)	100. (2.05)	125. (2.57)	160. (3.28)	200. (4.08)	250. (5.24)	315. (6.42)	400. (8.04)	500.	630.	800.	1000.	1250.	1600.	2000.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	66.9	71.1	71.4	72.3	73.8	73.7	73.4	74.2	78.2	81.4								108.1
VEHICLE ROSA	125	74.3	79.6	78.4	77.1	79.0	78.5	76.2	78.9	79.7	82.2								112.0
CONFIG 13	160	71.0	72.8	72.4	74.1	74.5	75.5	76.4	78.9	80.7	83.7								111.1
LCC SCHWEICHART	200	70.3	71.6	72.2	74.6	77.3	78.0	78.7	81.7	82.2	84.6								112.0
DATE 11/13/74	250	73.8	74.3	76.2	78.3	79.0	79.2	80.7	81.2	82.2	83.9								113.4
RUN 15/6	315	75.3	75.1	76.9	78.1	79.1	79.2	79.9	81.7	82.2	84.2								113.0
TAPE	400	73.1	74.6	75.4	76.6	79.0	78.5	78.9	80.4	81.2	82.4								112.0
BAR 29.3 HG	500	71.3	72.8	73.4	75.9	77.5	78.8	78.9	80.7	80.9	82.2								112.
(99312. N/M2)	630	72.9	74.6	75.4	78.6	79.8	81.3	82.2	83.2	82.9	83.9								114.7
TAMB 56. DEG F	800	74.6	76.3	77.2	81.4	81.3	82.8	83.2	83.9	83.7	82.9								115.0
(286. DEG K)	1000	73.9	75.6	77.9	79.1	80.6	82.3	83.7	85.2	84.2	81.7								115.0
TWET 45. DEG F	1250	75.1	77.4	78.7	80.7	82.8	84.3	86.6	87.4	86.7	83.2								117.0
(280. DEG K)	1600	77.4	82.6	82.9	86.2	87.9	91.1	92.6	92.4	91.2	86.2								123.0
HACT 6.40 GM/M3	2000	79.6	85.4	85.9	89.2	92.9	94.1	94.9	94.4	92.6	88.0								125.0
(.00640 KG/M3)	2500	78.1	83.4	85.9	90.0	91.7	92.3	92.4	93.6	91.2	86.5								124.0
NFA 7130. RPM	3150	78.4	84.2	86.9	90.5	92.2	93.3	94.1	95.3	94.4	89.5								125.0
(747. RAD/SEC)	4000	79.3	84.9	88.3	91.5	93.4	95.3	96.0	95.5	99.4	89.3								127.0
NFK 7199. RPM	5000	73.5	84.1	87.7	90.5	92.9	94.5	95.2	95.7	93.6	87.7								126.0
(754. RAD/SEC)	6300	76.3	82.1	85.2	88.6	91.0	92.7	93.7	95.0	91.3	84.9								120.0
NFS 8823. RPM	8000	75.2	80.5	84.0	87.4	89.6	90.8	93.9	94.5	91.7	86.3								120.0
(924. RAD/SEC)	10000	74.4	80.1	84.0	87.1	89.7	90.7	92.7	94.0	91.0	86.3								120.0
NO. OF BLADES 15	12500	73.1	77.8	82.3	85.7	88.1	89.3	91.8	93.3	88.7	85.9								122.0
FAN TIP SPEED	16000	69.9	75.5	79.2	82.3	84.8	87.3	89.2	91.1	87.0	82.1								120.7
623. FT/SEC	20000	69.1	74.5	78.3	81.5	84.6	86.7	88.1	90.7	88.0	82.1								121.0
	25000	68.1	73.2	76.3	82.2	82.7	85.0	88.0	88.1	86.6	80.7								120.0
	31500	67.4	72.3	75.5	83.1	82.0	84.2	86.3	86.1	85.3	79.5								120.0
	40000	67.0	70.4	73.0	81.5	79.3	82.3	83.7	84.6	83.3	77.5								119.
	50000	68.4	68.1	71.3	77.6	78.8	80.2	81.5	80.7	79.4	75.4								116.1
	63000	70.0	67.1	70.8	77.2	79.1	79.0	76.7	75.0	74.6	71.0								116.0
	80000	73.4	72.1	72.4	79.7	80.9	81.6	74.8	75.3	74.1	71.5								120.0
OVERALL MEASURED																			
OVERALL CALCULATED		89.5	94.1	96.5	99.9	102.1	103.5	104.6	105.5	103.5	99.2								130.0
	PNLD	102.4	107.3	110.0	113.1	115.3	116.5	117.4	118.1	116.6	112.1								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 11 DAY 22 NO. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (1.02)	66. (1.19)	76. (1.36)	89. (1.53)	96. (1.71)	106. (1.88)	116. (2.06)	126. (2.24)	136. (2.42)	146. (2.60)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	43.7	48.8	49.7	57.3	52.1	51.7	50.7	50.4	51.1	53.4							
VEHICLE R=55	125	51.1	57.3	56.4	56.4	54.3	54.4	54.2	55.1	54.2	54.4							
CONFIG 13	160	47.8	50.4	50.5	52.4	53.0	53.3	53.8	54.0	54.1	53.7							
LOC SCHENECTADY	200	47.5	49.1	50.2	52.6	55.4	55.7	55.7	54.6	54.5	50.3							
DATE 11/13/74	250	50.4	51.7	54.1	56.4	57.0	56.9	57.6	57.0	56.3	55.0							
RUN 15/6	315	51.8	53.4	54.7	56.4	57.0	56.8	56.8	57.4	56.9	56.7							
TAPE	400	49.4	51.8	53.2	54.5	55.9	55.9	55.7	56.0	55.1	53.8							
BAR 29.3 HG	500	47.6	50.0	51.1	53.7	55.3	56.1	56.6	56.2	54.7	53.4							
(99312. N/M2)	630	49.0	51.6	53.0	54.4	57.5	58.9	58.7	58.5	56.5	53.9							
TAMB 50. DEG F	800	50.6	53.2	54.6	56.9	58.2	58.9	59.6	59.1	57.1	51.7							
(283. DEG K)	1000	49.7	52.4	55.2	57.5	58.2	59.3	59.8	60.2	57.4	52.2							
TSET 45. DEG F	1250	48.9	54.0	55.8	58.1	60.1	61.2	62.5	62.3	59.7	53.4							
(280. DEG K)	1600	52.9	59.1	59.9	63.4	67.0	67.8	68.6	67.1	64.0	56.1							
HACT 6.40 GM/M3	2000	54.9	61.7	62.7	66.3	69.9	70.6	70.6	68.8	64.9	57.5							
(.00640 KG/M3)	2500	53.2	59.5	62.5	66.9	68.4	68.7	67.9	67.8	63.4	55.7							
NFA 7136. RPM	3150	53.1	58.9	63.2	67.1	68.7	69.4	69.3	66.2	60.2	57.1							
(747. RAD/SEC)	4000	53.6	60.2	64.2	67.7	69.4	70.9	70.7	68.4	66.5	56.7							
NFK 7199. RPM	5000	52.5	59.1	63.4	66.4	68.7	69.8	69.6	68.7	64.3	54.5							
(754. RAD/SEC)	6300	49.5	56.4	60.1	63.9	66.1	67.4	67.3	67.1	61.0	52.7							
NFD 8823. RPM	8000	47.0	53.7	57.8	61.7	63.7	64.3	65.6	65.1	59.7	50.3							
(924. RAD/SEC)	10000	44.5	51.6	56.3	59.5	62.2	62.8	63.4	62.7	56.7	47.0							
NO. OF BLADES 15	12500	40.6	46.9	52.4	56.1	58.4	58.9	60.0	59.2	51.0	41.2							
FAN TIP SPEED	16000	33.8	40.7	45.5	49.2	51.4	53.0	53.2	52.3	43.6	31.0							
623. FT/SEC	20000	26.6	34.6	39.9	43.6	46.5	47.4	47.7	45.7	37.2	21.4							
	25000	17.6	25.9	30.8	37.6	37.7	38.6	38.9	35.3	25.3	6.4							
	31500	5.8	14.2	19.9	28.5	27.0	27.3	25.8	21.4	8.5								
	40000			2.4	12.2	9.4	9.8	6.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.1	69.6	72.2	75.6	77.8	78.6	78.7	76.8	74.3	60.0							
PNLB		77.8	82.8	86.8	89.4	91.3	92.3	92.3	91.6	88.2	80.8							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = 20.TH 11 DAY 22 HR. 19.1

MODEL SOUND PRESSURE LEVELS (59. IPS, FS 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET I.D. (DEGREES (ARE RADIANS))

	FREQ.	5a. (1.02)	6a. (1.19)	7a. (1.36)	8a. (1.53)	9a. (1.7)	10a. (1.88)	11a. (2.05)	12a. (2.22)	13a. (2.42)	14a. (2.59)	0. (0.)	0. (10.)	0. (20.)	0. (30.)	0. (40.)	0. (50.)	0. (60.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	70.7	73.5	74.4	74.6	75.8	77.5	78.2	77.6	80.3	84.3								111.
VEHICLE R-SS	125	70.2	72.5	75.4	77.9	80.5	81.0	81.7	82.4	83.8	84.1								114.
CONFIG 13	160	74.5	76.3	76.1	77.1	79.5	79.2	80.4	81.9	83.6	86.3								114.
LOC SCHENECTADY	200	74.0	75.3	75.9	77.3	79.5	81.0	81.9	84.4	85.1	87.3								119.
DATE 11/13/74	250	77.7	77.5	80.1	81.3	82.5	83.7	85.2	85.9	86.1	87.5								117.
RUN 15/7	315	78.2	79.3	80.1	81.4	82.7	83.2	83.7	84.6	85.6	86.9								118.
TAPE	400	77.3	78.3	78.6	79.1	80.8	81.7	82.4	84.1	84.3	85.3								115.
BAR 29.3 HG	500	75.8	76.3	76.6	78.0	80.0	81.5	82.9	83.6	84.1	84.3								113.
(98912. N/M2)	630	78.6	78.0	78.9	81.1	82.9	84.9	85.4	86.4	85.4	85.3								117.
TAMB 50. DEG F	800	80.1	81.5	82.1	82.6	83.5	85.3	86.2	87.6	86.6	85.9								116.
(283. DEG K)	1000	77.1	79.3	80.6	81.6	83.6	84.5	86.4	87.4	86.6	83.8								117.
TRET 45. DEG F	1250	77.4	79.6	80.9	83.2	85.6	86.8	88.4	89.9	88.1	84.3								119.
(280. DEG K)	1600	77.9	81.1	82.4	85.2	87.4	88.6	89.9	90.6	88.9	84.1								121.
HACT 6.40 GM/M3	2000	85.4	87.3	89.9	92.5	94.4	98.8	100.8	100.1	95.6	91.1								130.
(.00640 KG/M3)	2500	88.6	88.3	89.6	92.5	94.7	94.1	95.4	94.3	92.6	87.9								126.
NFA 7962. RPM	3150	88.6	88.1	89.8	92.8	94.4	94.3	95.3	94.5	94.6	88.9								127.
(834. RAD/SEC)	4000	91.5	88.6	91.0	94.1	96.9	96.0	98.7	99.5	96.0	91.3								129.
NFK 8032. RPM	5030	89.2	87.0	89.9	93.2	95.6	96.5	96.9	96.1	93.2	88.8								128.
(841. RAD/SEC)	6300	79.3	85.8	89.6	93.1	94.5	95.7	96.7	96.7	93.2	89.7								126.
NFD 8823. RPM	8000	78.5	84.7	87.9	91.3	93.1	94.1	95.7	97.2	92.8	87.9								126.
(924. RAD/SEC)	10000	78.4	84.3	87.2	90.6	92.7	93.9	95.7	96.9	93.0	87.7								126.
NO. OF BLADES 15	12500	77.9	83.5	87.3	89.4	91.8	93.1	95.8	96.5	91.2	87.1								126.
FAN TIP SPEED	16000	76.9	83.2	82.4	85.8	88.5	90.5	92.4	94.1	89.0	83.9								123.
695. FT/SEC	20000	76.6	79.3	82.1	85.5	88.4	89.9	92.9	94.4	89.7	84.2								124.
	25000	76.6	78.2	81.0	84.5	87.2	89.8	91.8	93.3	89.3	83.5								124.
	31500	76.5	77.5	79.7	83.1	86.0	88.2	90.0	91.8	87.7	82.2								123.
	40000	75.3	76.1	78.7	81.0	83.1	85.5	87.9	88.5	85.5	80.3								122.
	50000	77.9	75.6	78.3	78.8	81.3	83.2	85.7	85.1	82.8	78.7								121.
	63000	79.7	75.8	79.7	78.5	80.5	82.3	84.2	81.0	80.0	77.7								123.
	80000	82.9	79.5	82.4	81.7	83.6	84.3	87.3	82.0	81.2	80.9								130.
OVERALL MEASURED																			
OVERALL CALCULATED		93.6	97.2	99.7	102.8	105.1	106.3	107.7	108.7	104.8	101.2								139.
	PNLE	105.6	110.5	112.7	115.3	118.1	119.1	120.1	121.1	117.9	114.1								

FULL SCALE DATA REDUCTION PROGRAM

WHEEL SPEED PERCENT LEVELS (50., 55., 60., 70 PERCENT DESIGN SPEED)

AZIMUTH ANGLES FROM INLET (DEGREES CLOCKWISE FROM RADIAL)

	FREQ.	50. (1.02)	60. (1.12)	70. (1.30)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.7	51.3	52.6	53.0	54.1	55.3	55.5	53.9	55.0	58.7							
VEHICLE R-55	125	50.1	55.2	53.5	54.2	56.8	56.9	56.0	56.5	56.4	57.1							
CONFIG 13	160	51.3	53.6	54.2	55.4	56.7	57.0	57.6	57.9	56.0	56.3							
LOC SCHENECTADY	200	51.7	52.8	53.9	55.5	57.5	58.7	59.0	60.3	59.4	56.2							
DATE 11/13/74	250	54.3	56.9	58.0	59.4	60.5	61.4	62.1	61.7	60.3	56.3							
RUN 19/7	315	54.7	56.6	59.0	58.7	60.3	60.6	60.5	60.1	57.6	56.3							
TAPE	400	53.7	55.5	56.4	57.9	59.6	59.2	59.2	59.7	58.2	56.7							
BAR 29.3 HG	500	51.3	53.4	54.3	56.7	57.8	58.9	59.6	59.1	57.6	55.5							
(99312. N/M2)	630	52.7	55.1	56.4	58.1	60.5	62.0	61.9	61.7	59.2	56.3							
TAMB 50. DEG F	800	56.1	58.4	59.6	60.3	61.4	62.4	62.6	62.8	60.0	58.5							
(283. DEG K)	1000	53.3	55.8	57.9	59.1	61.2	61.8	62.7	62.4	59.9	56.1							
TWET 45. DEG F	1250	53.1	55.2	58.1	60.6	62.9	63.7	64.5	64.7	61.1	58.5							
(280. DEG K)	1600	53.4	57.0	59.4	62.4	64.5	65.3	65.8	65.3	61.6	58.3							
MACT 6.40 GM/M3	2000	60.7	63.6	66.7	69.5	73.3	75.4	76.3	74.5	68.1	64.9							
(.00643 KG/M3)	2500	55.7	62.4	63.2	66.4	71.4	73.4	73.6	70.5	64.8	59.9							
NFA 7962. RPM	3150	53.4	61.9	65.2	67.4	70.2	70.4	70.5	72.4	66.4	57.5							
(834. RAD/SEC)	4000	55.8	63.9	66.9	70.9	72.9	73.6	73.5	72.4	67.2	59.1							
NFK 8032. RPM	5000	54.2	62.1	65.6	69.2	71.4	71.8	71.4	71.1	66.0	58.1							
(841. RAD/SEC)	6300	52.9	60.1	64.6	68.3	69.6	70.3	70.3	70.8	62.9	54.9							
NFD 8023. RPM	8000	50.5	57.9	61.8	65.5	67.2	67.5	68.1	67.8	60.6	51.6							
(924. RAD/SEC)	10000	48.5	55.8	59.5	63.3	65.2	65.8	66.4	64.6	58.4	48.3							
NO. OF BLADES 15	12500	45.3	52.6	57.3	59.9	62.1	62.6	64.0	62.4	53.6	43.3							
FAN TIP SPEED	16000	39.0	45.4	48.8	52.7	55.4	56.3	56.5	55.2	45.6	32.8							
695. FT/SEC	20000	32.1	39.8	43.6	47.6	50.2	50.7	51.5	46.4	38.9	23.6							
	25000	24.3	31.6	35.6	39.8	42.2	42.4	42.6	38.5	28.0	9.5							
	31500	12.2	19.4	24.1	28.5	31.0	31.3	29.5	25.1	10.9								
	40000		2.9	8.1	11.7	13.2	13.1	10.5	2.6									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		47.6	72.2	75.1	78.5	80.6	81.3	81.6	81.2	75.7	70.2							
PNLB		80.5	86.0	88.8	92.3	94.3	94.9	95.0	94.6	89.4	82.5							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 22 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. MIC. FS 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO DEGREES (AND RADIANS)

		5θ.	6θ.	7θ.	8θ.	9θ.	10θ.	11θ.	12θ.	13θ.	14θ.	θ.	θ.	θ.	θ.	θ.	θ.	θ.	PWL
	FREQ.	(1.02)	(1.19)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(0.	)(6.	)(10.	)(16.	)(18.	)(26.	)(30.	)
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. N)	100	71.0	73.3	74.4	74.3	76.3	77.2	79.4	78.6	80.1	84.5								111.
VEHICLE RUSS	125	78.7	77.8	76.6	77.6	63.3	80.7	81.7	82.4	83.6	85.1								116.
CONFIG 13	160	75.0	76.5	76.6	77.5	78.5	79.0	80.7	82.5	83.6	84.3								114.
LOC SCHENECTADY	200	74.7	75.3	75.6	77.1	79.8	81.2	82.4	84.1	84.8	87.5								115.
DATE 11/13/74	250	78.0	79.8	80.9	81.8	82.5	83.5	84.7	86.4	86.1	85.9								117.
RUN 15/8	315	78.2	79.3	80.4	81.3	82.3	82.7	84.2	84.9	85.7	86.8								118.
TAPE	400	77.0	78.3	78.4	79.6	80.3	81.5	82.9	84.1	84.3	84.8								115.
BAR 29.3 HG	500	73.0	77.0	77.1	79.1	80.3	81.5	83.4	84.1	84.7	84.4								115.
(99012. N/M2)	630	76.3	77.3	78.6	81.1	82.6	84.3	85.4	86.1	86.1	85.5								117.
TAMB 50. DEG F	800	80.1	81.3	81.6	82.6	84.3	85.0	86.4	87.1	86.6	83.6								118.
(283. DEG K)	1000	77.1	78.8	80.4	81.9	83.6	84.8	86.1	87.4	86.9	83.3								117.
TWET 46. DEG F	1250	77.4	80.1	81.1	83.4	85.1	85.5	88.4	89.6	88.1	84.9								119.
(281. DEG K)	1600	77.9	81.1	83.1	85.7	87.9	88.8	89.9	90.4	89.1	84.4								121.
HACT 6.98 GM/M3	2000	85.1	87.1	89.6	92.7	94.1	95.8	100.1	100.1	95.4	90.9								130.
(.00698 KG/M3)	2500	80.8	86.1	89.1	92.5	94.9	94.6	98.8	98.1	92.6	88.9								120.
NFA 7963. RPM	3150	81.1	85.1	89.3	92.5	94.7	94.6	95.6	96.9	94.2	88.9								121.
(834. RAD/SEC)	4000	81.5	88.5	91.0	94.7	97.1	97.8	99.0	99.0	96.6	90.8								123.
NFB 8033. RPM	5000	80.2	86.2	89.7	93.2	94.8	96.5	96.9	98.4	93.2	88.5								120.
(841. RAD/SEC)	6300	79.7	86.3	89.9	92.8	94.7	96.2	96.9	98.7	93.2	88.7								120.
NFB 8823. RPM	8000	78.6	84.4	88.1	91.0	92.8	94.3	95.7	97.1	92.1	87.9								120.
(924. RAD/SEC)	10000	78.1	84.2	87.6	90.8	92.9	94.1	96.4	96.1	92.7	87.9								120.
NO. OF BLADES 15	12500	77.8	83.2	86.9	89.7	91.5	93.8	94.8	95.9	90.6	86.5								120.
FAN TIP SPEED	16000	74.8	79.8	83.0	86.0	88.9	90.4	92.1	94.0	88.8	84.1								123.
695. FT/SEC	20000	75.0	78.9	81.9	85.9	87.8	90.3	92.8	94.1	89.1	83.9								124.
	25000	75.2	78.7	80.8	84.1	86.6	89.1	91.9	92.9	88.9	83.7								123.
	31500	74.9	77.8	80.3	83.4	85.6	88.0	89.4	91.4	87.5	82.1								123.
	40000	75.8	78.1	78.5	80.8	83.1	86.1	87.7	86.3	85.0	80.1								122.
	50000	78.5	75.9	79.1	78.9	81.3	83.2	86.5	84.9	82.6	78.8								122.
	63000	81.7	78.1	80.6	78.9	80.4	82.6	84.5	82.7	81.0	77.9								123.
	80000	83.1	79.7	82.3	80.9	82.8	85.5	88.0	86.9	83.4	81.1								130.
OVERALL MEASURED																			
OVERALL CALCULATED		93.7	97.1	98.8	102.8	105.0	106.4	107.7	108.5	104.7	101.0								130
	PNDB	105.5	110.4	112.8	116.8	118.2	119.1	120.2	120.8	117.8	113.8								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = 04JAN 11 DAY 22 HR. 19.8

MODEL SCOOP PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	0.	0.	0.	0.	0.	0.	0.
	FREQ.	(.09)	(.11)	(.13)	(.15)	(.16)	(.18)	(.20)	(.22)	(.24)	(.25)	(0.	)(0.	)(0.	)(0.	)(0.	)(0.	)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.0	51.0	52.6	52.8	54.6	55.2	55.7	54.9	54.7	50.9							
VEHICLE R-55	125	55.6	55.5	54.8	54.9	58.6	58.6	59.0	58.5	58.1	57.3							
CONFIG 13	160	51.5	54.1	54.7	56.9	56.7	56.8	57.8	56.7	56.6	54.3							
LOC SCHENECTADY	200	51.4	52.8	53.6	55.1	57.9	59.0	59.5	60.0	59.1	59.4							
DATE 11/13/74	250	54.6	57.2	58.8	59.9	60.5	61.1	61.6	62.2	60.3	58.5							
RUN 15/0	315	54.7	56.6	58.2	59.4	60.2	60.3	61.0	60.0	59.4	58.3							
TAPE	400	53.4	55.5	56.1	57.5	58.1	59.0	59.7	59.7	58.2	59.2							
BAR 29.3 MB	500	51.3	54.2	54.8	57.0	58.1	58.9	60.1	59.6	58.1	59.7							
(99012. N/M2)	630	52.5	54.8	56.2	58.9	60.5	61.5	61.9	61.5	56.7	56.5							
TAMB 58. DEG F	800	56.1	58.2	59.1	60.3	61.7	62.2	62.8	62.3	60.0	58.3							
(287. DEG K)	1000	53.3	55.5	57.7	59.4	61.5	61.8	62.4	62.4	59.8	53.8							
THET 46. DEG F	1250	53.1	54.7	58.3	60.9	62.4	63.4	64.8	64.5	61.1	54.5							
(281. DEG K)	1600	53.4	57.5	60.1	62.9	65.3	65.5	65.8	65.0	61.9	54.2							
HACT 0.95 GM/M3	2000	60.4	63.3	66.4	67.8	73.1	75.3	75.8	74.5	67.6	57.4							
(.000598 KG/M3)	2500	55.9	62.2	65.7	69.4	71.7	70.9	70.1	70.3	64.0	56.9							
NFA 7903. RPM	3150	55.9	61.9	65.7	69.1	71.1	70.8	70.0	71.9	64.1	57.5							
(834. RAD/SEC)	4000	55.8	63.9	66.9	70.9	73.2	73.4	73.7	72.3	67.2	58.9							
NFK 8033. RPM	5000	54.2	61.8	65.4	69.2	70.7	71.6	71.4	71.4	64.8	58.8							
(841. RAD/SEC)	6300	52.9	60.6	64.8	68.1	69.8	70.8	70.6	70.8	62.9	54.8							
NFD 8023. RPM	8000	51.5	57.6	62.0	65.2	66.9	67.8	68.1	67.8	60.1	51.8							
(924. RAD/SEC)	10000	48.2	55.5	60.3	63.5	65.4	66.0	67.1	64.8	58.3	48.5							
NO. OF BLADES 18	12500	45.3	52.3	57.8	59.9	61.8	63.3	63.9	61.8	52.8	42.7							
FAN TIP SPEED	16000	37.9	45.8	49.4	52.8	55.5	56.2	56.1	55.1	45.2	33.8							
695. FT/SEC	20000	32.5	39.8	43.5	46.9	49.6	51.1	51.4	49.1	38.3	23.2							
	25000	24.8	31.4	35.4	39.4	41.6	42.7	42.8	39.1	27.8	9.3							
	31500	12.5	19.8	24.7	28.8	30.8	31.2	29.1	24.7	10.7								
	40000		2.1	7.9	11.4	13.2	13.8	10.3	2.4									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.6	72.2	75.2	78.5	80.6	81.3	81.5	81.0	75.4	70.1							
	PNDB	80.4	86.0	88.9	92.3	94.4	94.8	95.1	94.3	89.3	82.2							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PRESENT DATE = MONTH 11 DAY 22 HR. 15.1

MODEL SOUND PRESSURE LEVELS (REF. 0.0002 DYNES/CM**2) FOR 70 PERCENT REL. HUM. (AV)

ANGLES FROM INLET IN DEGREES (FOR RADIANS)

		58. (1.02)	66. (1.15)	76. (1.33)	85. (1.48)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	0.	10.	20.	30.	40.	50.	60.	70. PNL
Fan.	50																		
	63																		
RADIAL 17. FT.	80																		
(S. NI	100	69.3	72.8	76.4	74.4	79.9	74.8	73.4	68.4	70.4	74.4								109.
VEHICLE RPSS	125	66.3	67.6	70.2	69.1	66.7	68.5	69.4	70.7	71.4	72.7								103.
CONFIG 13	160	64.3	65.3	65.7	55.4	57.5	60.5	69.9	71.2	72.5	74.7								105.
LOC SCHEDULE	200	64.3	65.3	66.4	57.9	73.3	71.8	72.4	74.4	75.2	76.7								105.
DATE 11/13/74	250	64.3	67.3	69.7	70.9	71.3	71.8	72.7	73.7	74.2	75.7								105.
R.H. 15/9	315	67.8	69.3	70.2	71.4	72.5	72.8	73.2	74.4	74.7	75.7								106.
TAPE	400	64.6	68.6	68.9	70.4	71.8	72.3	73.4	74.4	74.4	74.2								105.
BAR 29.3 HG	500	65.3	67.3	67.2	68.9	71.1	72.4	73.7	74.2	74.2	74.7								105.
(99812. N/M2)	630	69.9	69.1	69.9	72.7	74.3	75.6	77.7	77.2	77.4	77.0								109.
TAMB 50. DEG F	800	70.1	71.3	72.4	73.7	75.9	75.6	76.9	76.7	76.9	77.6								110.
(283. DEG K)	1000	67.9	70.3	71.9	73.7	75.6	76.6	76.4	76.7	76.2	76.3								110.
TRET 46. DEG F	1250	71.6	76.2	77.7	79.5	81.4	81.0	83.0	84.7	85.7	84.2								115.
(281. DEG K)	1600	73.1	76.3	77.9	78.9	81.2	82.4	84.1	85.4	85.7	83.0								116.
MACT 6.98 GM/M3	2000	72.4	75.4	77.3	81.5	84.1	85.4	85.6	85.6	84.2	81.0								116.
(.00994 KG/M3)	2500	73.6	78.2	80.3	84.8	86.2	87.4	88.1	88.4	88.4	85.5								119.
NFA 5573. RPM	3150	72.9	79.1	80.4	83.5	86.9	87.3	88.3	89.1	89.0	85.0								120.
(583. RAD/SEC)	4000	71.3	77.6	80.3	83.5	85.9	87.3	89.0	89.7	88.6	83.9								120.
NFK 5622. RPM	5000	69.7	75.6	78.3	82.7	84.6	85.7	86.7	88.4	87.5	84.1								118.
(589. RAD/SEC)	6300	68.5	73.9	76.4	81.1	83.4	84.2	86.7	87.2	86.5	81.3								117.
NF2 6923. RPM	8000	67.1	72.2	74.9	78.3	81.8	82.4	84.9	84.2	83.9	80.3								116.
(724. RAD/SEC)	10000	66.7	71.1	74.2	77.4	80.9	82.4	84.4	86.2	85.5	80.9								116.
NO. OF BLADES 15	12500	65.8	69.5	72.5	76.4	79.5	81.1	83.3	85.7	83.6	78.2								115.
FAN TIP SPEED	16000	67.3	66.7	69.6	74.3	76.7	79.0	81.3	83.3	82.9	79.2								113.
487. FT/SEC	20000	63.5	65.7	68.7	72.2	75.3	77.0	81.3	83.9	81.9	79.0								113.
	25000	64.0	65.3	67.4	71.2	73.6	75.7	78.2	79.7	78.8	73.1								111.
	31500	64.2	64.1	66.6	70.2	72.6	75.1	76.9	79.2	78.4	72.2								111.
	40000	64.6	63.7	66.1	68.4	73.1	72.9	75.5	76.1	75.4	70.5								110.
	50000	68.2	64.2	67.9	64.9	67.6	70.5	73.3	72.5	72.6	68.9								110.
	63000	70.3	66.4	69.8	67.6	73.4	70.7	72.5	70.3	70.6	64.6								112.
	80000	73.1	69.8	72.4	71.4	73.1	74.3	75.0	74.5	73.3	72.2								119.
OVERALL MEASURED																			
OVERALL CALCULATED		84.1	87.4	89.6	92.7	95.8	96.6	97.5	94.6	98.2	93.8								129.
PNDB		95.1	100.6	102.7	105.9	108.4	109.1	110.6	111.4	111.4	106.5								

PAGE 3 FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE = MO.DA 11 SEP 23 HR. 15.1

MODEL SOUND PRESSURE LEVELS (50. THRU 5. FOR PERCENT MACH. NUMBER DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.2)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.6)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	46.5	50.6	54.7	56.8	57.1	56.7	55.7	54.6	45.1	46.8							
125	43.1	45.3	48.3	47.5	47.1	46.4	46.7	46.8	46.6	46.9							
160	41.1	43.4	43.8	44.7	45.7	46.3	47.1	47.2	47.3	46.7							
200	41.0	42.8	46.4	46.1	49.4	49.5	49.5	50.3	49.5	48.6							
250	42.9	45.2	47.6	49.0	49.8	49.4	49.8	49.5	48.3	47.4							
315	44.3	46.7	48.8	48.4	50.5	50.3	50.0	50.1	48.7	47.2							
400	42.7	45.8	46.7	48.3	49.9	50.0	50.2	50.0	48.3	45.9							
500	41.6	44.5	44.8	46.8	48.1	49.4	50.3	49.7	47.9	45.9							
630	43.6	46.1	47.5	50.4	52.0	52.0	54.2	52.5	51.0	47.9							
800	46.1	48.2	49.9	51.3	53.4	53.7	55.3	54.4	52.6	48.2							
1000	43.7	47.1	49.2	51.2	53.9	53.0	54.7	54.7	52.4	47.4							
1250	49.4	53.5	54.8	56.9	58.6	58.5	60.6	59.5	58.7	54.4							
1600	48.7	53.3	54.9	57.0	59.0	59.1	60.1	60.1	58.5	52.9							
2000	47.7	51.6	54.7	56.6	61.1	61.9	61.3	60.1	56.7	52.5							
2500	48.7	54.2	57.3	61.4	62.9	63.7	63.6	63.6	61.7	56.7							
3150	47.6	53.9	56.7	60.4	63.4	63.4	63.5	62.9	61.7	51.5							
4000	45.6	52.9	56.3	59.7	61.9	62.9	63.7	63.0	59.7	51.7							
5000	43.7	50.6	54.2	58.0	60.4	61.1	61.1	61.4	56.3	49.4							
6300	41.7	48.1	51.4	56.4	58.6	58.8	60.3	59.3	56.2	47.2							
8000	39.0	45.4	48.8	53.5	55.9	55.8	57.3	56.8	53.9	44.0							
10000	37.8	42.5	46.5	51.0	53.4	54.3	54.1	54.9	51.1	40.7							
12500	33.3	38.6	42.6	46.9	50.1	50.9	51.4	51.6	46.2	34.4							
16000	26.5	31.9	36.0	41.1	43.4	44.7	45.4	44.4	38.8	26.1							
20000	21.0	25.8	30.3	35.3	37.1	38.3	39.9	38.9	31.1	14.3							
25000	13.4	18.2	22.8	28.5	28.8	29.3	29.8	25.9	17.4								
31500	1.8	6.1	11.0	15.6	17.6	18.2	16.4	12.5	1.6								
40000					0.2	6.4											
50000																	
63000																	
80000																	
OVERALL SPL	58.4	63.1	65.7	69.0	71.0	71.4	71.9	71.4	69.2	62.6							
PNLTD	70.7	70.2	70.9	82.4	84.8	85.1	85.5	84.9	83.1	75.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = RUNIN 3 DAY 10 PM, 12.4

MODEL SCUNB PRESSURE LEVELS (30, Leg. P. 70 PERCENT REL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (ARE RADIANS)

		50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.06)	150. (2.70)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PRE
	30																		
	03																		
RADIAL 17. FT.	00																		
(5. M)	100	87.3	90.0	93.2	94.1	98.3	89.0	87.9	87.9	93.2	94.9	97.0							108.0
VEHICLE R=55	125	88.5	90.8	93.7	98.4	93.5	89.8	88.2	91.2	94.9	93.4	98.3							108.0
CONFIG 14A	150	85.5	88.8	88.9	87.1	87.8	88.5	98.7	91.9	95.4	95.9	97.1							108.2
LOC SCHENECTADY	200	88.8	88.7	91.7	88.4	98.9	91.5	92.4	93.9	97.2	97.4	98.8							107.8
DATE 12/10/74	250	87.3	88.7	93.7	94.9	91.5	91.7	93.4	93.7	95.9	95.7	98.8							108.9
RUN 41/4	313	88.3	89.5	94.4	91.4	92.4	93.0	92.4	93.2	98.9	95.9	98.1							107.3
TAPE	438	87.3	89.0	94.9	94.8	91.5	93.8	93.4	93.9	95.7	95.2	94.8							107.8
BAR 29.8 MG	500	88.8	88.3	89.9	94.2	91.1	93.8	93.7	93.7	94.4	94.9	93.3							108.2
(8087. N/M2)	625	89.1	91.8	91.9	93.7	94.8	97.8	98.4	97.4	98.2	97.7	94.8							109.4
TAMB 37. DEG F	800	98.4	92.8	93.7	94.4	95.3	97.3	97.6	99.4	99.4	97.9	94.8							110.3
(279. DEG K)	1000	98.1	91.7	94.2	98.9	98.3	97.1	98.9	98.2	98.7	98.9	94.8							111.3
TMET 35. DEG F	1250	92.1	98.8	97.4	99.7	92.8	93.3	99.2	99.7	97.2	94.7	98.8							110.8
(275. DEG K)	1600	91.8	95.3	97.2	98.3	92.4	93.6	94.9	99.2	98.9	91.7	98.1							110.4
MACT 0.84 MM/MJ	2000	91.9	98.1	98.7	91.3	93.7	94.8	99.1	94.4	93.9	91.3	98.3							110.3
(.00848 MG/MJ)	2500	94.8	99.8	92.2	93.1	96.9	97.8	99.8	99.8	99.4	94.8	99.8							120.7
NFA 5473. RPM	3150	93.8	98.8	99.9	98.8	98.2	97.1	98.4	99.1	99.7	93.8	99.3							119.8
(573. MAD/SEC)	4000	93.3	98.3	98.3	93.8	95.9	97.8	98.3	99.8	99.8	94.2	99.8							120.1
NFA 5593. RPM	5000	98.8	98.3	98.8	92.1	94.8	95.5	98.2	98.2	97.8	91.9	98.7							119.2
(586. MAD/SEC)	6300	98.3	95.3	97.7	91.8	93.8	94.5	98.8	97.5	98.8	91.1	98.5							117.9
NFD 6823. RPM	8000	98.7	93.7	98.8	99.8	92.2	93.4	95.5	98.3	98.7	99.1	93.8							119.8
(924. MAD/SEC)	10000	97.5	92.1	95.8	98.7	91.8	93.8	93.8	95.5	98.1	98.4	95.8							119.8
NO. OF BLADES 18	12500	97.2	98.8	93.8	97.5	98.2	91.7	93.9	98.1	94.8	98.5	94.4							115.7
FAN TIP SPEED	10000	95.4	98.7	91.2	95.2	98.1	99.9	92.8	95.7	92.9	98.4	92.1							113.5
478. FT/SEC	20000	94.4	98.8	98.4	94.3	97.8	98.5	91.8	93.1	92.1	98.6	91.8							113.4
	25000	94.5	97.1	99.8	94.9	95.8	97.8	99.9	91.2	99.7	94.5	98.4							112.5
	31500	94.4	95.9	98.8	94.9	95.8	97.3	99.1	91.4	94.1	94.4	99.1							113.3
	40000	94.9	94.5	97.4	98.8	92.5	94.2	98.9	97.7	97.8	91.8	98.3							111.8
	50000	97.2	95.1	98.1	98.8	98.8	91.3	93.8	93.8	92.7	99.2	97.3							110.8
	63000	99.2	95.1	99.2	98.5	99.8	99.1	98.4	98.5	98.5	97.8	98.8							111.7
	80000	91.8	97.2	98.1	97.4	99.1	98.8	99.5	98.8	98.1	99.8	99.1							115.8
OVERALL PRESSURE		94.3	97.9	98.4	98.3	95.1	98.3	97.8	98.8	98.9	94.1	98.8							120.7
OVERALL CALCULATED		96.8	101.1	103.7	100.1	100.1	100.5	110.4	111.4	111.8	107.1	104.1							

POLEL SOUND PRESSURE LEVELS (DB. REF. P= 2E-5 PASCALS) AT 48 ANGLES FROM INLET (0 DEGREES ISAMB RADIANS)

FREQ	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	44.2	46.5	51.4	50.0	48.0	47.0	45.2	44.1	47.8	47.3	46.4						
VEHICLE V-55 125	43.4	48.4	51.8	48.7	51.0	46.0	45.4	47.3	49.5	45.0	44.7						
CONFIG 14A 160	42.3	44.3	47.0	45.4	48.3	48.3	47.0	47.9	49.0	48.4	45.2						
LOC SCHENECTADY 200	42.7	44.3	49.7	48.0	48.1	49.2	49.5	49.8	51.5	49.1	48.7						
DATE 12/10/74 250	43.9	48.2	51.0	49.0	49.0	49.4	50.4	49.5	50.1	47.4	44.2						
RUN 4124 315	44.0	48.0	52.2	49.4	50.2	50.0	49.3	48.9	51.4	47.5	43.5						
TAPE 400	43.7	48.2	52.7	48.8	49.4	50.5	50.2	49.5	49.8	48.3	41.7						
BAR 29.4 MB 500	43.1	45.4	47.6	48.0	48.8	51.2	50.3	49.2	48.2	48.1	46.2						
(997.7 N/M2) 630	45.3	48.3	49.5	51.4	52.2	54.8	53.6	52.8	51.8	48.7	41.4						
TAMB 37. DEG F 800	46.4	48.9	51.1	52.1	52.9	54.5	54.3	54.6	54.8	48.7	41.9						
(276. DEG K) 1000	46.8	48.5	51.5	51.4	52.7	54.1	55.2	53.2	53.9	49.4	46.4						
TNET 35. DEG F 1250	47.9	52.7	54.8	57.1	59.9	60.2	61.3	60.5	60.2	54.9	44.6						
(275. DEG K) 1600	47.2	51.8	54.2	57.5	59.5	60.3	60.8	59.6	59.7	51.9	41.9						
HACT 4.84 GM/M3 2000	47.2	52.3	55.5	58.3	60.9	61.1	60.9	58.8	58.4	53.9	46.7						
(.00424 LB/M3) 2500	49.7	55.6	58.8	61.9	63.7	64.9	65.1	64.1	62.7	57.4	49.4						
NFA 5473. RPM 3150	48.4	54.4	57.2	60.4	62.7	63.2	63.5	62.9	61.5	56.4	47.3						
(573. RAD/SEC) 4000	47.8	53.8	56.3	60.8	62.8	63.4	63.4	63.1	60.8	52.4	41.4						
NFA 5593. RPM 5000	44.8	51.3	54.5	58.8	60.5	60.9	60.7	61.4	58.4	49.4	37.8						
(586. RAD/SEC) 6300	43.5	49.8	52.7	56.7	58.1	59.1	59.8	59.8	56.5	47.4	33.8						
NFB 6623. RPM 8000	40.8	46.9	50.6	54.8	56.2	56.9	57.9	56.7	54.7	43.8	31.4						
(924. RAD/SEC) 10000	37.8	43.8	47.4	51.4	53.5	54.9	54.5	54.2	51.8	41.8	28.8						
NO. OF BLADES 15 12500	34.7	39.9	43.7	48.8	50.5	51.3	52.1	52.8	47.8	34.7	19.8						
FAN TIP SPEED 16000	28.4	33.9	37.8	44.8	44.8	45.8	48.8	44.8	38.5	28.3	9.9						
478. FT/SEC 20000	21.9	28.8	32.8	38.4	38.8	39.3	39.8	38.1	31.3	18.3							
25000	13.9	19.8	24.4	28.2	30.8	31.2	30.7	27.3	18.4								
31500	2.8	7.8	13.2	18.3	20.8	20.4	18.8	14.4	3.3								
40000				8.8	2.8	1.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.4	63.5	66.8	69.1	71.8	71.7	72.8	71.4	70.8	62.9	50.8						
PNOW	71.8	76.9	80.1	82.7	84.5	85.3	85.7	84.5	83.8	75.5	66.2						

PROC. DATE = MARCH 3 DAY 10 PM, 13.8

MODEL SCRN. PRESSURE LEVELS (PSF, DEG. F, PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (ARM RADIANS)

	PROJ.	58. (1.02)	78. (1.36)	98. (1.71)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																	
	60																	
RADIAL 17. FT.	80																	
(5. RI	100	74.3	77.7	78.5	71.4	73.2	74.4	78.9	81.3									110.4
VEHICLE M-55	120	68.5	72.9	75.0	74.2	74.2	76.4	76.2	80.0									108.8
CONFIG 144	140	68.8	76.2	72.8	74.2	75.7	77.7	79.9	81.3									108.8
LOC SCHENECTADY	200	69.5	71.7	70.8	70.4	70.4	79.2	86.9	82.3									116.7
DATE 12/10/74	250	71.3	73.2	75.8	78.9	77.2	78.6	85.2	88.5									110.4
RUN 41/5	315	72.8	73.9	75.5	78.4	77.2	78.4	79.7	88.3									116.3
TAPE	400	71.1	72.7	75.8	75.9	77.2	77.7	78.9	78.8									109.8
BAR 29.8 MG	500	69.8	71.7	74.5	78.4	76.9	77.9	78.2	77.3									108.2
(98767. N/M2)	630	71.9	74.4	77.8	79.2	79.8	86.4	86.5	78.1									111.8
TAMB 37. DEG F	800	73.1	75.7	78.3	81.9	82.2	81.4	84.4	78.1									113.2
(278. DEG K)	1000	72.8	78.4	78.3	81.4	82.2	83.8	86.7	77.3									113.8
THET 35. DEG F	1250	72.9	77.2	81.1	84.7	86.2	85.9	81.5	78.3									110.2
(275. DEG K)	1600	77.1	82.9	86.1	87.7	91.8	93.2	87.7	84.8									121.3
RHOT 4.84 SM/M3	2000	75.4	81.7	86.4	87.9	87.9	87.2	83.4	79.8									116.3
(.00846 SL/M3)	2500	75.9	84.2	86.9	89.4	89.8	89.7	84.5	79.8									121.4
NFA 8250. RPM	3150	77.8	85.9	90.7	93.1	93.8	93.9	89.3	84.1									124.5
(855. RAD/SEC)	4000	78.1	84.1	89.2	91.8	92.3	92.1	88.2	81.3									123.8
NFA 6385. RPM	5000	75.5	84.3	88.9	91.2	92.5	91.3	85.4	88.7									122.7
(670. RAD/SEC)	6300	73.8	82.8	87.8	89.2	91.8	89.8	84.4	79.8									121.2
NFB 8823. RPM	8000	72.2	81.3	86.4	89.8	89.8	89.7	83.1	78.8									120.7
(924. RAD/SEC)	10000	71.3	80.8	85.3	88.8	89.8	89.1	84.1	78.8									120.1
NO. OF BLADES 15	12500	71.8	78.8	84.9	88.2	89.1	87.3	82.8	77.8									119.8
FAN TIP SPEED	16000	68.8	76.8	82.1	85.8	87.7	85.1	79.8	74.8									117.7
940. FT/SEC	20000	67.2	75.2	81.4	84.8	86.1	83.3	88.8	73.1									116.2
	25000	66.5	74.1	80.3	83.9	85.4	83.2	78.8	72.7									116.8
	31500	65.9	73.5	80.3	83.4	85.2	83.3	77.7	72.1									117.4
	40000	65.4	78.7	78.5	81.4	81.5	88.7	75.1	68.3									116.3
	50000	67.2	68.9	77.3	77.8	77.5	75.9	72.7	66.8									115.3
	63000	68.2	68.8	78.3	74.2	71.8	71.8	69.1	68.8									118.8
	80000	71.8	69.8	78.1	69.5	69.7	68.8	69.8	69.1									120.2
OVERALL MEASURED																		
OVERALL CALCULATED		67.4	93.9	98.8	101.1	102.2	101.4	97.1	93.8									133.2
	PWL	108.5	107.5	112.8	114.2	115.8	115.8	110.9	108.8									

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 18 YR. 13.0

MODEL SCANNING PRESSURE LEVELS (PSI, WEB, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		90. (1.62)	78. (1.36)	90. (1.71)	110. (2.00)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.70)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	FREQ.																	
	36																	
	63																	
SIDELINE 283. FT.	4v																	
(60.90 M)	100	51.2	55.9	54.9	48.7	49.6	49.1	51.3	49.9									
VEHICLE G-55	125	45.4	51.1	53.3	47.4	50.3	51.0	50.4	49.0									
CONFIG 14A	160	45.0	48.3	54.2	51.3	51.7	52.1	52.6	49.5									
LOC SCHENECTADY	200	46.2	49.7	54.1	54.5	54.3	53.5	52.8	50.2									
DATE 12/10/74	250	47.9	51.1	53.0	53.9	53.0	52.0	51.9	49.5									
RUN 41/5	315	48.3	51.7	53.5	54.3	52.9	52.5	51.2	47.7									
TAPE	400	47.4	50.4	52.9	54.7	52.8	51.6	50.3	46.8									
BAR 29.8 MG	500	46.1	49.3	52.3	54.1	52.4	51.7	49.4	44.2									
(1007. N/M2)	630	46.4	52.0	55.2	53.7	55.3	54.6	51.4	44.8									
TAMB 37. DEG F	800	49.1	53.1	56.9	57.3	57.4	54.8	51.2	44.3									
(278. DEG K)	1000	48.3	53.7	55.7	57.7	57.2	57.2	51.2	43.2									
TDET 35. DEG F	1250	48.0	54.3	56.4	54.8	61.8	59.8	51.7	43.8									
(275. DEG K)	1600	52.7	59.9	63.3	62.6	60.6	63.0	57.0	43.5									
RHOT 4.86 LBM/M3	2000	58.7	58.5	63.3	63.6	62.3	59.7	52.5	44.6									
(.25048 KG/M3)	2500	51.4	66.6	65.7	64.9	64.1	61.9	53.7	43.7									
RPM 6436. RPM	3150	52.4	62.2	67.4	68.3	67.4	65.7	57.9	47.1									
(675. M/SEC)	4000	58.4	66.6	65.2	66.5	65.6	63.3	54.6	43.8									
RPS 6395. RPM	5000	49.3	66.3	64.7	65.7	65.3	62.1	52.7	41.8									
(670. M/SEC)	6300	47.8	58.9	62.1	62.8	63.9	59.5	50.3	38.8									
RPB 6423. RPM	8000	44.1	55.1	64.2	64.2	60.4	57.7	48.8	36.4									
(926. M/SEC)	10000	41.1	52.4	57.6	59.2	58.5	54.8	44.8	36.1									
NO. OF BLADES 18	12500	36.4	48.7	55.2	58.3	55.3	49.5	38.4	22.5									
FAN TIP SPEED	16000	31.1	42.4	48.6	47.8	48.8	41.7	28.5	8.7									
540. FT/SEC	20000	24.7	36.7	43.3	44.6	43.1	34.5	19.3										
	25000	19.9	29.7	35.3	34.7	31.8	21.9	3.7										
	31500	3.5	18.8	29.3	22.8	18.4	8.5											
	40000		0.8	8.8	3.9													
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.2	69.8	74.3	73.2	74.8	72.3	65.8	59.3									
	Pm30	75.1	83.8	88.4	87.3	88.7	86.8	79.5	70.8									

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH J DAY 18 PR. 12.4

MODEL SOUND PRESSURE LEVELS (DB. REF. P= 20 MICRON/M2 RE. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.5	71.0	72.2	73.6	74.0	76.0	73.2	73.4	76.9	81.9	85.3							110.7
VEHICLE R-55	125	72.5	77.3	77.2	77.1	77.8	79.5	75.4	77.9	79.2	81.4	84.0							112.4
CONFIG 14A	160	72.0	73.3	73.2	75.1	74.3	80.5	77.2	78.4	80.4	83.7	85.1							112.5
LOC SCHENECTADY	200	71.5	72.0	73.2	75.1	76.5	82.2	78.4	80.7	81.4	84.4	86.3							113.7
DATE 12/16/74	250	74.3	75.2	77.2	79.1	79.8	83.7	80.9	81.4	82.8	83.9	84.8							116.0
RUN 41/0	315	75.3	75.7	77.2	79.1	78.8	79.5	80.2	80.4	81.7	83.7	84.0							113.7
TAPE	400	74.1	74.2	75.2	78.8	77.3	85.0	79.2	79.9	80.7	82.2	82.8							113.0
BAR 29.8 MG	500	72.8	72.8	74.4	75.9	77.3	80.3	79.7	79.9	80.2	81.4	81.3							112.3
(99707. N/M2)	630	74.1	75.3	76.9	78.9	80.3	81.5	82.2	82.4	83.4	83.8	81.1							114.5
TAMB 37. DEG F	800	75.1	76.5	77.9	80.4	81.1	82.5	82.9	84.2	83.7	84.4	80.8							115.3
(276. DEG K)	1000	74.9	76.2	76.2	79.6	80.8	82.5	83.4	85.2	84.9	81.9	79.8							115.8
THET 35. DEG F	1250	75.1	77.5	79.4	80.9	83.3	84.8	86.7	86.9	86.2	82.5	80.3							117.5
(275. DEG K)	1600	76.8	81.0	80.4	86.2	89.1	89.3	91.2	91.9	91.4	85.7	81.8							122.8
HACT 4.84 GM/M3	2000	79.4	83.1	87.2	89.5	90.9	91.6	92.4	92.4	90.9	88.8	83.1							123.7
(.00484 KG/M3)	2500	78.8	83.6	87.2	90.3	91.4	92.1	91.9	93.1	91.2	88.0	81.8							124.0
NFA 7035. RPM	3150	79.9	85.1	87.8	91.1	92.7	94.1	94.4	95.4	93.9	89.5	84.8							126.8
(737. RAD/SEC)	4000	80.3	85.8	88.3	91.5	93.2	95.0	95.0	96.0	94.8	89.2	84.8							128.7
NFA 7189. RPM	5000	79.3	84.3	87.8	91.8	91.9	94.2	94.5	95.5	92.8	87.4	83.2							125.8
(753. RAD/SEC)	6300	78.8	82.1	86.0	89.1	90.5	92.2	93.8	94.8	91.1	86.9	82.3							124.4
NFB 8823. RPM	8000	75.7	81.2	85.8	88.1	89.4	91.2	93.0	93.8	90.5	85.8	81.4							123.7
(924. RAD/SEC)	10000	75.3	80.8	84.8	87.9	89.5	90.5	92.8	93.5	91.1	86.1	81.3							123.7
NO. OF BLADES 18	12500	74.2	79.0	83.1	87.6	88.4	89.2	91.7	92.6	89.8	85.8	80.8							122.8
FAN TIP SPEED	16000	71.5	78.4	82.5	85.1	85.9	87.6	89.8	91.2	88.8	82.1	77.8							121.8
814. FT/SEC	20000	71.2	75.5	79.7	82.8	85.9	87.0	89.5	91.8	87.8	82.2	77.4							121.5
	25000	70.2	74.3	78.1	84.3	84.0	85.6	87.8	88.9	88.2	81.6	75.7							120.2
	31500	70.2	74.8	78.3	82.1	84.3	86.0	87.4	88.9	88.1	80.4	74.1							121.2
	40000	68.7	71.5	75.2	79.4	81.8	83.7	85.1	85.5	83.5	78.4	76.5							119.9
	50000	69.0	68.1	73.1	77.9	80.8	81.8	81.3	81.0	79.4	76.8	69.8							118.7
	63000	69.9	65.4	70.5	77.0	80.3	79.3	75.4	74.3	73.3	70.8	69.1							116.5
	80000	71.8	67.7	70.8	77.1	79.8	79.0	71.8	70.5	70.1	69.3	66.3							121.7
OVERALL MEASURED																			
OVERALL CALCULATED		90.2	94.1	97.4	100.4	101.8	103.3	104.1	105.1	103.0	99.1	96.8							136.1
	PAMB	103.3	107.7	110.5	113.3	114.7	116.6	116.7	117.7	116.3	112.2	108.8							

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C-2

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 16 YR. 12.4

MODEL SOUND PRESSURE LEVELS (DB. REF. TO 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. (60.96 M) 80																	
100	44.5	49.3	54.4	52.0	52.4	56.3	56.5	49.8	51.8	54.3	53.9						
VEHICLE R-55 125	49.4	54.9	55.3	53.4	56.0	57.4	52.7	54.0	54.7	53.8	54.6						
CONFIG 14A 160	46.8	50.8	51.3	53.4	52.5	58.3	54.3	54.4	54.8	55.7	53.2						
LOC SCHENECTADY 200	48.2	49.5	51.2	53.3	54.6	60.0	55.5	50.6	55.7	50.3	54.2						
DATE 12/16/74 250	50.9	52.7	55.1	57.2	57.6	61.4	57.9	57.2	56.8	55.8	52.5						
RUN 41/0 315	52.0	53.1	55.0	56.1	56.7	57.0	57.0	56.1	55.7	55.2	52.1						
TAPE 400	50.4	51.5	52.9	54.5	55.1	62.5	55.9	55.5	54.8	53.5	49.7						
BAR 29.8 IN HG 500	49.1	49.9	52.1	53.7	55.1	57.8	56.3	55.4	53.9	52.8	48.2						
(100700. N/M2) 630	50.3	52.3	54.5	56.6	56.0	58.8	56.7	57.8	57.0	53.9	47.8						
TAMB 37. DEG F 800	51.1	53.4	55.3	56.0	56.8	59.7	59.3	59.4	57.1	53.4	47.0						
(276. DEG K) 1000	50.7	53.0	55.5	57.1	58.0	59.8	59.7	56.2	58.2	52.4	45.7						
TWET 35. DEG F 1250	50.9	54.2	56.8	58.3	60.8	61.7	62.8	61.8	59.2	52.7	45.8						
(275. DEG K) 1600	54.2	56.6	63.4	65.4	66.3	66.0	67.1	66.8	64.2	55.8	48.8						
HACT 4.84 GM/M3 2000	56.7	59.3	64.8	66.5	67.8	68.1	68.1	66.8	63.4	56.3	47.3						
(.00424 KG/M3) 2500	53.7	59.8	63.8	67.1	68.2	68.4	67.4	67.3	63.4	55.2	45.4						
NFA 7335. RPM 3150	56.7	64.9	64.6	67.8	69.2	70.1	69.5	69.2	65.1	56.1	47.8						
(767. RAD/SEC) 4000	56.8	61.1	64.3	67.7	69.2	70.7	69.8	69.3	65.8	57.8	48.5						
NFA 7189. RPM 5000	53.3	59.3	63.5	66.9	67.7	69.6	68.9	68.5	63.8	54.7	46.3						
(753. RAD/SEC) 6300	50.8	56.8	61.9	64.4	65.8	66.9	66.6	66.9	60.8	52.8	41.3						
NFB 8023. RPM 8000	47.8	54.4	58.9	62.3	63.5	64.6	65.4	64.4	58.9	49.3	37.1						
(924. RAD/SEC) 10000	45.3	52.1	57.1	60.8	62.8	62.4	63.5	62.2	56.8	46.8	34.8						
NO. OF BLADES 19 12500	41.7	48.1	53.2	57.4	58.7	58.7	59.8	58.7	51.8	41.2	28.2						
FAN TIP SPEED 16000	34.8	41.7	48.9	53.8	52.5	53.3	53.8	52.3	43.2	31.8	18.7						
814. FT/SEC 20000	28.7	35.8	41.2	44.9	47.8	47.7	48.1	46.8	38.8	21.5							
25000	19.8	27.8	32.7	37.8	39.1	39.2	38.5	35.1	24.9	8.7							
31500	7.8	18.8	22.7	27.5	29.3	29.1	28.8	22.2	9.3								
40000			4.5	18.1	11.8	11.2	7.7										
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.8	69.5	73.1	70.1	77.3	78.4	77.9	77.5	73.8	67.9	62.8						
PNLD	77.8	83.2	88.8	89.7	91.8	92.3	91.8	91.1	87.7	80.9	72.1						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 16 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	69.0	73.2	80.9	74.8	75.3	78.2	78.4	77.1	69.1	65.7	66.8							113.9
VEHICLE R-55 125	74.5	75.7	76.1	77.3	79.3	78.5	79.7	81.4	82.0	85.7	86.3							116.0
CONFIG 14A 160	74.3	76.4	84.9	77.1	77.5	78.0	80.2	81.9	83.8	87.2	86.6							116.1
LOC SCHENECTADY 200	73.8	74.9	83.1	77.3	79.8	80.7	81.9	83.9	84.6	88.2	89.1							118.7
DATE 12/16/74 250	77.8	79.2	80.4	82.6	83.0	84.0	85.7	85.1	86.3	88.7	89.3							119.8
RUN 41/7 315	78.3	78.9	88.9	81.1	81.3	82.0	82.9	84.1	84.8	86.9	87.8							119.1
TAPE 400	77.1	77.9	79.6	79.8	80.5	81.0	82.4	83.4	84.1	86.2	87.1							116.9
BAR 29.8 MG 500	79.3	78.2	77.9	78.6	79.8	80.3	82.4	83.1	83.6	84.9	85.1							115.1
(100707. N/M2) 630	78.6	78.5	82.4	81.1	82.1	83.5	84.4	85.1	85.8	85.9	84.8							117.1
TAMB 38. DEG F 800	78.1	80.4	81.9	82.4	83.3	84.0	85.7	86.9	86.1	85.4	84.6							117.9
(279. DEG K) 1000	77.4	78.9	81.9	82.1	82.8	84.5	86.1	87.4	86.6	84.4	82.8							118.0
TMET 35. DEG F 1250	77.9	79.7	81.9	83.4	85.6	87.1	89.1	89.1	88.1	85.0	84.1							119.8
(275. DEG K) 1600	78.1	81.2	84.4	87.2	89.1	90.1	90.9	90.9	89.9	85.5	83.1							122.1
HACT 4.54 GM/M3 2000	83.2	86.5	90.9	94.6	96.2	97.4	97.4	97.9	95.4	90.8	87.8							128.9
(.00454 KG/M3) 2500	81.4	86.3	89.9	93.3	94.2	94.6	95.1	95.6	92.6	88.0	84.8							126.7
NFA 7815. RPM 3150	81.1	86.8	90.4	93.8	94.9	95.3	95.1	96.8	93.4	89.3	85.1							127.4
(818. RAD/SEC) 4000	83.3	89.6	92.5	95.6	97.4	98.3	98.8	99.8	96.3	92.4	88.5							130.2
NFA 7978. RPM 5000	81.8	87.5	91.0	94.0	95.1	96.5	97.0	97.4	93.3	89.5	85.9							128.2
(835. RAD/SEC) 6300	80.6	86.3	90.0	93.2	94.5	95.3	96.5	97.5	94.5	89.4	85.1							127.8
NFD 8823. RPM 8000	79.3	85.2	89.6	92.2	93.0	94.9	96.3	97.0	92.4	88.6	83.7							127.1
(924. RAD/SEC) 10000	78.3	85.2	89.1	91.2	93.3	94.8	96.3	97.0	93.1	88.7	83.6							127.3
NO. OF BLADES 15 12500	77.8	83.8	87.6	91.1	92.7	93.8	95.7	96.6	91.8	87.8	82.9							126.7
FAN TIP SPEED 16000	75.3	81.6	84.1	87.5	89.9	91.2	93.1	94.6	89.1	85.2	80.1							124.6
8820. FT/SEC 20000	74.5	80.8	84.2	86.9	88.5	90.8	92.8	94.6	89.8	85.2	79.9							124.7
25000	73.9	80.2	83.4	85.8	87.8	89.8	92.8	93.6	89.4	84.8	79.6							124.7
31500	74.1	79.8	82.8	85.9	86.1	89.5	91.4	91.9	88.6	83.7	77.1							124.7
40000	72.2	77.7	80.9	83.7	85.2	87.6	89.1	88.9	86.1	81.1	74.0							120.9
50000	69.9	75.9	79.5	79.6	82.2	83.8	86.1	84.9	82.2	78.4	71.2							121.9
63000	69.5	74.9	78.8	77.2	80.1	80.1	81.5	79.5	78.5	72.9	66.4							121.4
80000	71.3	75.8	79.5	78.8	78.3	78.5	79.2	76.7	77.7	68.6	69.1							124.2
OVERALL MEASURED																		
OVERALL CALCULATED	92.8	97.5	101.4	101.8	105.3	106.5	107.4	108.2	104.6	101.8	100.0							130.2
PWL	104.1	111.1	114.5	114.1	113.7	114.3	114.9	115.6	111.9	114.6	112.4							

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)
AIMING POINT: CENTER IN DEGREES (AZ, ELEVATION)

		5A.	6A.	7A.	8A.	9A.	10A.	11A.	12A.	1P.	2P.	3P.	0.	0.	0.	0.	0.	0.
FREQ.		(1.0A)	(1.2)	(1.3)	(1.5)	(1.7)	(1.9)	(2.0)	(2.2)	(2.4)	(2.6)	(2.7)	(0.	)(0.	)(0.	)(0.	)(0.	)(0.
SILENT, 400. FT.																		
(43.9° F.)	1	47.	50.3	49.1	50.7	52.4	54.2	53.7	53.4	54.8	56.3	57.4						
VEHICLE 4=55	2	51.8	50.1	50.9	50.7	52.	50.2	50.9	57.5	57.1	57.9	58.7						
CONFIG 14A	3	51.1	54.1	51.0	55.4	54.7	54.1	57.1	57.1	58.3	59.3	58.7						
LOC SEATTLE-TACOMA	4	49.5	50.1	51.1	50.5	52.5	53.1	53.1	53.9	52.9	52.1	52.5						
DATE 12/15/74	5	49.6	50.8	50.9	50.7	51.1	51.1	52.1	50.9	52.5	52.4	52.1						
RUN 4177	6	49.8	50.1	50.7	50.1	50.2	50.1	50.8	50.1	48.9	50.5	50.1						
TAPE	7	49.6	50.2	52.4	52.8	50.4	50.1	50.2	50.1	48.1	52.8	54.2						
BAR 28.9 IN. HG.	8	1.8	50.1	50.5	50.5	52.8	52.1	50.1	50.4	52.4	52.1	51.9						
(0.0787 KG/CM2)	9	50.8	51.5	50.9	50.9	50.7	52.1	52.9	50.8	49.5	50.4	51.4						
TEMP 58. DEG. F	A	46.1	47.3	50.9	50.2	51.9	51.8	52.1	50.1	50.5	50.2	51.3						
(27.8 DEG. C)	B	49.6	51.7	50.2	49.5	49.6	51.1	52.4	52.4	52.1	54.9	48.8						
REL. HUM.	C	49.1	47.7	50.1	50.1	50.2	50.4	50.1	48.1	51.1	52.2	48.5						
(27% REL. H)	D	49.7	47.7	51.4	50.4	50.2	50.4	48.8	48.5	52.6	50.4	48.1						
WIND 4.94 KM/HR	E	69.5	72.4	67.7	71.5	73.1	74.1	73.1	72.2	67.9	67.3	52.4						
(3.0694 KM/HR)	F	69.5	70.1	69.5	70.4	73.5	73.5	72.5	70.1	64.5	67.2	48.4						
WPA 7814. KM/HR	G	69.5	70.8	69.7	71.4	73.4	73.7	73.7	70.7	65.4	67.9	48.1						
(4.5 KM/SEC)	6	7.8	69.1	69.5	71.7	73.5	73.1	73.5	73.1	67.5	67.9	50.3						
WPK 7814. KM/HR	5	69.5	72.5	69.7	70.5	71.5	73.1	73.4	70.4	64.1	69.7	49.1						
(4.5 KM/SEC)	6	69.5	69.8	69.4	69.4	73.1	73.1	69.8	69.5	62.5	69.3	46.1						
FFL 4921. FT.	A	7.4	69.1	62.9	69.7	67.1	69.2	69.7	67.7	69.4	54.3	39.4						
(924. KM/SEC)	B	49.4	69.8	61.4	64.2	65.8	69.7	67.1	65.7	58.7	49.3	34.9						
NO. OF BLADES 4	10	49.4	50.9	57.7	61.8	63.1	65.1	63.9	62.5	54.1	44.7	27.5						
FAN TIP SPEED	11	49.6	49.4	50.4	52.7	50.8	50.4	57.1	55.4	45.7	39.9	18.1						
862. FT/SEC	2	49.1	49.5	49.8	49.1	51.1	51.4	49.2	39.1	28.4								
	2	49.4	49.1	77.8	41.1	43.8	47.4	43.7	39.5	28.1	13.4							
	3	11.1	21.3	27.2	31.3	33.1	32.7	30.9	25.2	12.1								
	4		9.4	13.2	14.3	15.7	15.1	13.7	3.1									
	5																	
	6																	
	7																	
OVERALL CALCULATED		72.1	72.6	72.1	73.4	75.7	76.1	75.9	76.3	73.5	73.5	68.2						
FILE		72.1	72.4	72.7	73.1	74.4	75.1	74.7	74.3	69.4	73.8	75.1						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 18 HR. 12.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLE FROM INLET IN DEGREES (AND RADIANS)

		5A, (1.66)	6A, (1.75)	7A, (1.78)	8A, (1.83)	9A, (1.71)	10A, (1.47)	11A, (2.06)	12A, (2.24)	13A, (2.42)	14A, (2.60)	15A, (2.78)	0, (0.	0, (0.	0, (0.	0, (0.	0, (0.	0, (0.	PWL
RADIAL 17. FT.																			
(5. FT.)	1	77.1	77.4	75.4	75.1	74.5	74.5	78.2	72.4	66.3	65.2	66.6							113.5
VEHICLE 4855	2	77.1	77.2	77.5	72.3	73.8	74.2	71.2	71.4	65.1	65.4	66.1							110.9
CONFIG 14A	3	74.1	75.5	74.1	70.6	70.1	74.0	71.2	71.9	64.3	66.7	69.1							110.4
LOC SCHENECTADY	4	74.1	75.4	74.4	72.3	70.7	68.7	73.2	73.9	64.6	67.7	69.3							110.4
DATE 12/15/74	5	77.1	79.1	81.1	82.3	77.8	84.2	86.2	79.1	80.1	67.7	69.1							118.4
RUN 41A	6	77.1	77.5	74.9	71.1	71.9	62.2	73.7	73.6	64.6	66.7	67.8							110.9
TAPE	7	77.1	77.7	74.9	73.3	71.1	68.5	73.7	73.6	67.3	66.2	68.8							110.6
BAR 29.6 IN.	8	77.1	79.2	77.4	75.4	2.1	70.5	72.2	72.9	66.3	65.2	64.8							115.5
(100737. N/M2)	9	79.1	77.7	73.6	71.4	74.1	63.7	74.7	75.4	66.5	65.7	64.8							112.3
TEMP 58. DEG. F	10	77.4	79.3	81.9	78.1	77.1	67.4	75.7	76.6	66.3	64.7	64.8							116.3
(287. DEG. K)	11	77.4	79.2	80.9	81.8	72.5	64.2	76.4	77.1	67.1	64.4	62.8							117.9
INLET 3A. DEG. F	12	77.9	79.5	81.8	82.7	75.8	69.8	79.1	79.1	66.1	64.7	63.3							119.7
(27%. DEG. K)	13	77.1	81.1	83.9	86.5	78.6	72.2	81.4	80.9	70.1	64.7	62.3							121.9
HUM 5.0% GM/KG	14	77.1	79.7	90.6	94.5	96.4	97.8	97.5	97.9	95.1	90.5	87.8							126.9
(5.0000% KG/KG)	15	71.4	79.7	89.4	92.8	93.9	94.8	94.6	95.8	92.9	88.7	84.8							120.5
WFA 7A1%, RPM	16	77.9	79.9	90.7	93.1	94.7	95.2	95.1	96.8	93.4	89.5	85.3							127.8
(814. RAD/SEC)	17	77.1	79.2	92.5	95.2	97.1	98.7	98.8	99.5	96.5	92.8	89.7							130.0
WFA 79A%, RPM	18	71.9	77.4	90.8	93.8	95.4	96.2	97.0	97.7	93.8	89.7	84.4							126.2
(836. RAD/SEC)	19	77.9	79.3	90.2	93.1	94.2	95.2	96.7	96.6	93.5	89.1	84.5							126.0
WFA 82A%, RPM	20	79.2	81.2	84.8	91.0	92.9	94.8	96.3	97.2	93.9	88.3	83.6							127.1
(924. RAD/SEC)	21	77.7	81.2	84.5	91.4	92.7	94.5	96.3	96.7	93.5	88.9	83.3							127.0
NO. OF BLADES IN	22	77.2	81.7	87.3	90.7	92.4	93.4	96.4	96.6	91.7	87.5	82.8							126.6
FAN TIP SPEED	23	74.5	81.4	83.9	86.9	89.2	90.8	93.2	94.1	89.3	84.9	80.5							124.3
882. FT/SEC	24	74.7	80.7	83.4	86.8	89.2	90.8	93.2	94.5	90.0	84.7	79.8							124.7
	25	75.9	80.2	82.8	86.6	88.5	90.1	92.1	93.6	89.8	84.9	79.2							124.6
	31	74.7	79.8	82.1	85.4	87.8	89.5	91.4	92.2	88.3	83.4	77.1							124.0
	40	72.7	77.8	80.2	83.2	85.3	87.2	89.4	89.0	86.4	81.8	75.3							122.0
	51	75.9	75.4	74.9	79.8	82.2	84.4	86.9	85.1	83.0	78.5	69.8							120.4
	63	75.7	75.1	74.6	77.2	79.8	80.0	82.1	79.9	78.9	72.8	64.8							121.3
	82	71.8	74.4	75.1	77.4	78.8	79.1	79.8	79.2	76.3	75.0	69.0							114.7
OVERALL MEASURE.																			
OVERALL CALCULATE.		72.8	97.4	100.6	109.5	109.2	106.4	107.4	106.1	106.0	101.6	100.6							132.2
	PWL	120.3	110.8	113.6	116.5	116.7	119.3	120.0	120.5	116.2	114.8	112.1							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 10 HR. 12.8

MODEL SOUND PRESSURE LEVELS (59. MEG. PA. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5A, (1.92)	6A, (1.83)	7A, (1.75)	8A, (1.66)	9A, (1.57)	10A, (1.48)	11A, (1.40)	12A, (1.31)	13, (1.22)	14, (1.13)	15, (1.05)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)
SIDELINE 200. FT. (60.96 M)	49.7	51.2	53.6	53.5	54.9	54.5	55.5	53.6	55.6	57.5	57.4						
VEHICLE R=55	51.5	54.5	55.6	56.7	57.6	56.4	56.4	57.5	57.4	57.6	56.5						
CONFIG 14A	51.1	52.5	54.2	54.9	57.2	56.6	56.3	57.9	56.4	56.7	57.2						
LOC SCHENECTADY	50.7	52.9	54.4	55.5	56.4	56.5	56.2	57.6	56.9	57.6	57.2						
DATE 12/16/74	54.4	56.2	57.6	58.4	61.6	61.9	63.1	61.9	60.3	59.4	56.7						
RUN 41/A	54.5	55.3	57.7	59.1	59.7	59.6	60.5	59.3	58.9	58.5	59.2						
TAPE	53.4	54.9	56.6	57.3	58.9	58.6	60.4	59.2	61.2	57.5	54.0						
DAR 29.4 KG (80707. LB/HR)	51.4	53.5	55.6	56.2	59.6	57.9	58.8	58.4	59.1	56.4	51.7						
	52.3	54.7	57.2	59.1	61.7	60.8	61.2	60.7	60.5	56.7	51.4						
TARG 38. DEG F (272. DEG K)	53.4	56.2	59.3	59.8	64.6	60.9	62.1	62.8	59.5	55.4	51.0						
	53.2	56.2	58.2	59.1	60.6	61.3	62.7	62.2	60.3	54.8	48.7						
TAET 38. DEG F (275. DEG K)	53.8	56.1	58.6	60.1	63.1	63.7	63.3	64.0	61.1	54.7	49.6						
	54.7	57.4	60.9	63.7	65.8	67.6	66.3	66.5	62.9	54.6	47.3						
HICY 5.08 CM/MS (2.0000 IN/MS)	66.8	72.8	77.4	78.5	73.3	74.3	73.3	72.3	67.6	60.2	52.2						
	66.8	69.3	66.6	69.6	70.7	70.9	70.1	70.0	65.1	57.2	49.4						
SFA 7617. M/S (518. FT/SEC)	68.7	68.3	69.7	69.6	71.2	71.4	70.3	70.6	65.1	57.2	49.3						
	67.4	64.6	69.6	71.5	73.2	73.9	73.5	72.3	67.7	60.2	50.5						
SFA 7949. M/S (638. FT/SEC)	68.5	68.5	69.2	69.7	71.2	71.6	71.4	70.7	64.3	57.2	49.5						
	68.0	68.0	69.1	69.4	69.4	70.8	70.4	70.1	63.2	55.2	47.2						
SFA 8627. M/S (926. FT/SEC)	61.1	64.3	62.3	66.5	67.6	68.1	66.7	67.0	62.9	52.7	39.4						
	48.8	48.7	49.8	49.1	45.2	46.4	47.0	46.4	50.2	49.5	34.6						
NO. OF BLADES 18	49.7	52.5	57.4	53.2	42.7	43.6	43.6	42.4	54.5	43.7	27.5						
FAN TIP SPEED 462. FT/SEC	36.8	40.6	40.3	43.7	46.5	46.6	47.3	45.9	33.8	14.4							
	42.2	40.7	46.1	46.9	41.5	41.2	41.6	42.5	39.2	24.2							
	40.4	42.9	37.3	41.4	43.6	43.7	42.9	39.9	30.5	10.1							
	11.6	21.4	24.5	26.6	32.4	32.7	31.9	25.4	11.5								
		3.7	9.5	13.6	15.4	14.6	12.0	3.1									
OVERALL CALCULATED	67.7	72.2	75.9	79.1	80.7	81.3	81.2	80.2	75.8	70.5	66.2						
	67.2	69.2	70.7	72.6	74.5	75.0	74.9	74.6	69.7	63.2	75.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 18 HR. 12.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5A, (1.02)	6A, (1.19)	7A, (1.36)	8A, (1.53)	9A, (1.71)	10A, (1.88)	11A, (2.05)	12A, (2.24)	13A, (2.42)	14A, (2.60)	15A, (2.78)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	PWL
	A																		
RADIAL 17, FT.	A																		
(5, MI)	100	62.3	65.5	69.9	69.4	68.8	68.3	67.9	67.7	71.2	74.2	77.1							104.2
VEHICLE P=85	125	65.8	68.5	71.7	70.1	73.3	69.5	70.4	70.7	73.2	73.2	75.6							105.1
COMFIG 14A	160	65.8	68.8	68.7	67.4	67.7	68.8	70.2	71.2	73.4	75.7	78.8							104.4
LOC SUBMERSIBLE	200	65.8	65.7	67.4	68.6	69.8	71.8	72.9	73.9	74.9	76.9	77.8							106.2
DATE 12/20/74	250	67.3	66.2	69.7	71.1	71.7	72.8	73.7	73.9	74.4	75.2	76.3							106.4
NO. 4170	315	68.8	69.8	70.2	71.4	72.0	72.8	72.9	73.4	75.7	75.9	76.1							106.9
TAPE	400	67.8	68.7	69.7	70.9	71.5	72.8	72.9	73.9	74.9	75.2	74.3							106.2
BAT 29.0 VO	500	67.1	67.7	68.2	69.9	71.1	71.8	73.9	74.2	74.4	75.2	73.3							105.7
(80207. N/M2)	630	68.4	70.5	71.7	73.4	74.8	75.8	76.9	77.2	77.9	77.7	74.8							107.1
TAT1 38. DEG F	800	70.9	70.1	73.4	74.9	75.8	76.8	78.3	79.4	79.2	77.9	75.1							110.3
(270. DEG K)	1000	69.9	71.2	73.4	74.2	75.8	77.1	78.7	80.2	80.9	79.2	74.8							110.9
TAET 38. DEG F	1250	72.8	75.7	77.7	80.0	82.4	83.7	85.4	86.4	86.2	85.2	78.6							116.9
(270. DEG K)	1600	71.6	74.1	77.4	80.3	82.4	84.1	85.2	85.2	85.7	82.3	76.1							116.3
HART 5.0E 3M/HR	2000	72.1	75.1	77.4	81.3	83.2	84.1	84.9	84.6	84.2	81.3	76.6							116.4
(.01505 KG/MI)	2500	74.8	78.4	81.7	84.8	86.7	87.8	89.9	90.4	90.2	84.3	80.1							120.7
VFA 5407. RPM	3150	75.8	78.1	80.6	84.1	86.2	87.1	88.3	88.8	90.2	83.8	79.8							119.9
(572. RAT/SEC)	4000	76.1	77.8	80.1	83.8	86.2	87.2	88.8	90.5	89.6	84.5	80.8							120.3
VFA 6007. RPM	5040	71.2	75.8	79.0	82.1	84.1	85.8	86.2	86.2	86.1	82.2	78.7							116.2
(634. RAT/SEC)	6350	70.1	74.7	77.5	81.4	83.2	84.7	85.7	87.3	86.8	80.9	76.8							117.4
VFT 6047. RPM	8000	66.8	73.2	76.7	80.4	81.4	82.7	85.2	86.2	86.7	80.3	75.4							116.5
(634. RAT/SEC)	10100	67.6	70.8	74.5	78.7	80.7	83.8	84.5	86.2	86.1	80.2	75.6							116.2
NO. OF BLADES 15	12500	66.7	70.0	73.4	77.8	80.2	81.9	84.2	84.9	85.1	79.3	74.3							115.5
FAN TIP SPEED	16000	64.7	67.7	71.5	74.7	78.1	79.6	82.2	83.7	82.8	78.9	73.8							113.9
477. FT/SEC	20000	64.4	66.3	70.2	74.3	76.9	78.3	81.2	83.5	82.9	76.7	71.6							112.7
	25000	64.7	66.3	69.0	72.8	75.8	77.2	79.8	80.9	80.7	74.6	70.2							112.9
	31500	64.7	65.9	69.1	72.4	75.3	77.2	79.1	80.7	80.4	74.4	69.9							112.2
	40000	64.8	64.8	67.3	69.5	72.3	74.3	76.7	77.3	77.0	72.2	68.6							111.6
	50000	62.1	65.5	67.6	70.5	71.2	73.4	72.9	73.0	73.1	70.1	67.6							110.9
	63000	64.2	65.4	69.2	67.2	69.3	69.3	70.4	69.0	69.0	68.6	69.0							108.6
	80000	71.3	67.2	70.1	67.7	68.9	69.1	69.8	69.3	68.3	69.3	69.3							108.6
OVERALL MEASURED																			
OVERALL CALCULATED		84.3	87.3	89.9	92.9	94.9	96.1	97.7	98.7	98.8	[illegible].3	92.6							129.7
	PWL	96.8	100.7	103.1	106.1	108.0	109.1	110.9	111.5	111.8	107.9	103.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 18 HR. 12.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5A (1.92)	6A (1.75)	7A (1.57)	8A (1.40)	9A (1.22)	10A (1.05)	11A (0.87)	12A (0.70)	13A (0.52)	14A (0.35)	15A (0.17)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
63																	
80																	
100	44.2	43.3	43.2	47.6	47.1	46.2	45.2	43.9	45.8	47.3	45.7						
125	41.9	40.2	40.8	46.5	51.0	47.4	45.7	46.8	47.7	45.4	44.0						
160	41.8	43.3	44.6	45.7	45.5	48.8	47.3	47.2	47.8	47.7	45.8						
200	42.5	43.3	45.4	46.8	47.9	49.2	50.0	49.8	49.2	48.8	45.7						
250	43.9	45.4	47.6	49.2	49.3	49.7	50.6	49.7	48.6	47.0	44.6						
315	44.8	46.3	48.0	49.4	50.0	49.8	49.8	49.1	49.7	47.5	43.8						
400	43.9	45.7	47.4	48.8	49.4	50.0	49.7	49.5	48.8	46.5	41.5						
500	43.4	44.4	46.8	47.6	48.8	48.9	50.6	49.7	48.2	45.6	40.2						
630	44.8	47.5	49.2	51.2	52.5	53.1	53.5	52.5	51.5	49.7	44.1						
800	48.9	49.9	50.8	50.6	50.1	50.7	54.8	56.9	56.2	48.7	40.9						
1000	48.7	49.6	50.7	51.7	53.0	54.1	54.9	55.2	54.2	49.7	40.7						
1250	48.4	51.9	54.8	57.4	59.9	60.2	61.5	61.3	59.2	55.6	44.0						
1600	48.5	51.2	54.4	57.5	58.5	60.6	61.1	59.8	58.5	52.1	41.4						
2000	47.8	52.7	55.2	56.3	60.1	60.6	64.6	59.1	56.7	50.8	40.6						
2500	48.7	52.6	56.7	58.7	63.4	64.1	65.4	66.9	62.4	53.4	42.0						
3150	48.4	53.8	57.2	60.7	62.7	63.2	63.5	62.7	60.2	52.6	42.8						
4000	47.4	52.9	56.2	59.8	62.2	62.9	63.5	63.8	61.2	52.2	41.8						
5000	45.3	50.8	54.7	58.0	60.0	60.9	60.7	60.9	58.9	49.5	37.8						
6300	43.2	48.4	52.4	56.7	58.4	58.9	58.4	59.3	56.5	46.8	35.8						
8000	40.9	46.4	50.6	54.6	55.5	56.2	57.4	56.7	54.7	44.0	33.1						
10000	37.9	43.1	47.8	51.4	53.3	54.9	55.2	54.7	51.7	41.3	29.8						
12500	34.2	39.1	43.4	48.2	50.5	51.8	52.3	50.7	47.3	37.8	19.2						
16000	27.9	32.7	37.9	41.5	44.8	46.4	46.3	44.8	39.2	25.8	5.4						
20000	21.9	26.3	31.7	35.4	38.8	39.0	39.8	38.5	31.2	16.0							
25000	14.1	19.1	23.6	28.2	31.6	30.9	30.7	27.1	19.3	0.4							
31500	2.9	7.1	13.5	17.6	20.3	20.5	18.9	14.2	3.2								
40000				0.2	2.4	1.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	55.5	62.2	66.9	69.0	70.9	71.5	72.1	71.7	69.7	63.1	55.6						
OVERALL	71.9	76.5	79.4	82.9	84.4	85.0	85.4	85.3	83.5	79.2	68.4						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT.																		
(5. M) 100	67.3	71.3	76.2	77.1	76.3	75.5	73.4	69.9	71.2	75.4	77.8							108.7
VEHICLE R-55 125	65.8	67.6	71.4	69.9	69.3	69.0	69.2	70.9	71.4	73.4	76.1							104.5
CONFIG 19 160	69.3	66.8	67.2	67.6	68.5	69.5	70.4	71.7	73.4	75.4	76.3							104.9
LOC SCHENECTADY 200	67.8	66.6	67.7	68.4	70.5	71.8	72.4	74.7	74.7	77.2	78.3							106.5
DATE 11/15/74 250	67.8	68.6	70.4	71.6	71.8	72.7	73.7	74.2	74.7	76.2	76.6							106.8
RUN 19/4 315	69.3	69.3	70.9	71.9	72.5	73.3	73.7	74.4	74.7	75.9	76.1							107.0
TAPE 400	67.6	68.6	70.4	71.1	72.0	73.5	74.2	74.7	75.2	75.2	74.6							106.8
BAR 29.7 HG 500	66.6	67.8	68.9	70.4	72.3	73.0	73.7	74.2	74.2	74.9	73.8							106.2
(100162. N/M2) 630	68.6	70.6	71.4	73.4	74.8	76.1	76.7	77.4	77.7	77.5	75.3							109.1
TAMB 43. DEG F 800	72.1	71.3	74.2	74.4	75.8	76.8	78.4	78.7	78.9	77.9	76.1							110.4
(279. DEG K) 1000	68.6	70.8	73.4	74.4	75.6	77.3	78.4	79.4	79.9	78.2	73.8							110.5
TWET 38. DEG F 1250	73.4	75.9	77.2	79.0	81.9	83.3	84.9	86.2	86.7	84.7	80.3							116.7
(276. DEG K) 1600	71.6	75.1	77.7	80.5	82.1	84.4	85.2	86.2	85.9	82.8	77.3							116.7
HACT 4.60 GM/M3 2000	71.9	76.7	78.7	82.1	84.4	86.4	86.9	85.7	84.7	81.5	77.3							117.6
(.00460 KG/M3) 2500	73.4	78.2	81.4	84.3	86.2	87.9	88.9	89.4	89.7	83.8	79.3							120.2
NFA 5538. RPM 3150	72.7	77.7	80.9	83.6	86.5	88.1	88.6	89.4	89.7	83.8	80.1							120.2
(580. RAD/SEC) 4000	71.9	76.9	79.8	83.4	85.2	87.1	88.3	90.1	89.2	84.0	79.0							119.8
NFK 5625. RPM 5000	69.6	74.9	78.0	82.1	84.4	86.1	86.5	87.7	87.4	82.2	76.5							118.2
(589. RAD/SEC) 6300	68.6	73.7	76.3	80.5	82.8	84.3	85.3	87.3	86.9	81.2	75.8							117.2
NFD 8823. RPM 8000	67.9	72.2	75.3	79.0	81.2	83.2	84.6	86.3	86.0	80.7	74.7							116.3
(924. RAD/SEC) 10000	68.1	71.0	74.1	78.8	80.9	82.9	84.1	86.3	85.4	79.7	74.7							116.1
NO. OF BLADES 15 12500	69.3	70.7	73.2	77.4	80.0	82.8	84.3	86.2	84.2	78.6	73.7							115.8
FAN TIP SPEED 16000	65.6	67.2	70.4	74.1	77.5	80.0	82.1	83.6	83.0	76.8	71.2							113.9
483. FT/SEC 20000	66.4	66.9	69.9	74.8	76.4	79.7	81.9	84.5	82.7	76.9	71.3							114.4
25000	70.6	69.9	69.0	72.7	75.7	77.5	79.5	81.3	80.8	74.9	69.8							112.8
31500	69.1	68.0	67.7	72.3	74.5	7.2	78.8	80.9	79.5	74.1	68.0							113.0
40000	66.4	65.0	67.1	69.9	72.5	,.7	76.8	77.7	76.9	72.1	65.0							111.8
50000	67.9	65.3	67.3	68.6	69.5	72.0	74.0	73.4	72.8	69.9	64.9							110.8
63000	68.4	65.7	68.1	67.9	69.2	70.5	71.1	70.4	70.0	68.2	65.5							111.9
80000	70.4	67.8	70.2	69.3	71.5	73.0	73.9	73.1	71.9	69.9	68.2							118.2
OVERALL MEASURED																		
OVERALL CALCULATED	84.4	87.2	89.8	92.8	94.9	96.7	97.7	98.8	98.5	94.2	90.6							129.8
PNDB	96.2	100.3	103.1	105.9	108.2	109.8	110.5	111.7	111.4	107.1	103.4							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.3

FUEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5a. (1.02)	6a. (1.19)	7a. (1.36)	8a. (1.53)	9a. (1.71)	10a. (1.88)	11a. (2.06)	12a. (2.24)	13a. (2.42)	14a. (2.60)	15a. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	44.2	49.1	54.4	55.6	54.6	53.5	50.7	46.1	45.0	47.0	46.4						
125	42.5	45.3	49.6	48.2	47.6	46.9	46.4	47.1	46.0	45.6	44.5						
160	46.1	44.4	45.3	45.9	47.0	47.3	47.6	47.7	47.8	47.5	44.5						
200	44.5	44.1	45.7	46.6	49.6	49.5	49.5	50.6	48.8	49.1	46.2						
250	44.4	46.0	45.3	49.7	49.8	50.4	50.6	50.0	48.8	47.9	44.2						
315	44.8	46.7	48.7	49.9	50.5	50.8	50.5	50.1	48.7	47.5	43.5						
400	43.5	45.8	48.2	49.1	49.9	51.0	50.9	50.3	49.1	46.6	41.7						
500	42.9	45.9	46.6	48.3	50.1	50.4	50.3	49.7	47.9	46.1	40.7						
630	44.8	47.8	49.0	51.2	52.5	53.3	53.2	52.8	51.3	48.4	41.9						
800	48.1	48.2	51.6	52.1	53.4	54.0	54.8	53.9	52.4	48.7	42.3						
1000	44.5	47.6	50.7	51.9	53.0	54.3	54.7	54.5	53.2	48.7	39.7						
1250	49.1	52.5	54.3	54.4	59.2	60.2	61.0	61.0	59.7	54.9	45.6						
1600	47.2	51.6	54.7	57.7	59.3	61.1	61.1	60.8	58.7	52.6	42.1						
2000	47.2	52.9	55.5	59.1	61.4	62.9	62.6	60.1	57.2	51.0	41.7						
2500	48.5	54.2	58.1	61.2	63.0	64.2	64.4	63.6	61.9	52.9	43.2						
3150	47.4	53.5	57.3	60.2	62.9	64.2	63.8	63.2	61.5	52.4	43.1						
4000	46.1	52.2	55.8	59.5	61.3	62.7	63.0	63.4	60.3	51.8	40.8						
5000	43.6	49.9	53.7	58.0	60.2	61.4	61.8	60.7	58.1	49.5	37.6						
6300	41.9	48.0	51.2	55.7	57.9	59.9	58.9	59.4	56.6	47.1	34.8						
8000	39.4	45.3	49.2	53.1	55.3	54.7	57.0	57.0	54.0	44.3	30.4						
10000	38.2	42.5	46.4	51.5	53.4	54.8	54.8	55.1	51.1	40.4	25.9						
12500	36.8	39.8	43.3	47.8	50.3	52.4	52.4	52.1	46.4	34.8	18.3						
16000	28.8	32.4	36.6	40.9	44.2	45.8	46.2	45.0	39.6	25.7	5.8						
20000	23.9	26.9	31.4	36.9	38.2	40.5	40.5	39.5	32.0	16.2							
25000	20.0	22.6	23.5	28.1	30.7	31.1	30.3	27.9	19.5	0.5							
31500	6.7	10.0	12.2	17.7	19.5	20.4	18.3	14.1	2.7								
40000				0.6	2.6	2.2											
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.8	62.4	66.0	68.9	70.9	72.1	72.1	71.6	69.5	63.8	55.9						
PNDB	78.9	75.9	79.4	82.4	84.6	85.8	85.6	85.2	83.1	75.5	66.5						

SIZELIKE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 19
LOC SCHENECTADY
DATE 11/15/74
RUN 174
TAPE
BAR 29.7 IN HG (2062. N/M2)
TAMB 43. DEG F (279. DEG K)
T-ET 34. DEG F (276. DEG K)
HACT 4.60 GM/M3 (.00400 KG/M3)
NFA 5538. RPM (580. RAD/SEC)
NFK 5625. RPM (589. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 483. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PAR.	5a. (1.02)	6a. (1.19)	7a. (1.36)	8a. (1.53)	9a. (1.71)	10a. (1.88)	11a. (2.06)	12a. (2.24)	13a. (2.42)	14a. (2.60)	15a. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FTS	80																		
(5. M)	100	71.0	73.6	72.4	72.1	74.3	73.8	73.4	74.4	73.0	77.2	80.6							160.3
VEHICLE RUSS	125	69.3	70.1	71.7	71.6	73.3	72.5	72.2	74.7	75.7	77.7	80.6							162.9
CONFIG 19	160	69.8	69.6	69.7	71.1	71.9	72.3	73.4	74.9	77.2	79.7	81.1							160.4
LOC SCHENECTADY	200	69.3	69.1	70.2	71.4	73.5	75.3	75.7	78.2	78.9	80.9	82.6							110.1
DATE 11/15/74	250	69.8	72.1	73.7	74.9	75.9	76.9	76.7	77.9	78.2	80.2	81.3							110.3
RUN 19/5	315	71.8	73.3	74.7	75.4	75.8	77.3	77.2	78.7	78.9	80.2	80.3							110.9
TAPE	400	79.3	72.1	72.9	74.1	75.3	76.9	76.4	77.9	77.9	78.4	78.3							109.7
BAR 29.7 MB	500	68.8	71.1	71.7	73.2	74.8	75.8	76.7	77.9	77.7	78.2	77.6							109.4
(99152. N/M2)	630	70.4	72.8	74.4	76.2	77.6	79.1	79.2	80.4	80.4	80.2	77.8							111.9
TAMB 43. DEG F	800	73.1	74.1	75.9	76.4	78.1	78.8	80.4	80.9	81.2	80.2	77.8							112.4
(279. DEG K)	1000	70.9	73.8	75.7	76.7	78.1	79.8	81.2	82.9	82.4	79.7	76.6							113.1
TAET 38. DEG F	1250	72.1	75.9	77.9	79.2	80.9	82.8	84.7	85.7	85.2	81.2	78.6							115.9
(276. DEG K)	1600	78.4	64.9	69.7	69.5	90.6	92.4	92.7	93.7	93.2	87.0	82.8							124.6
HACT 4.68 GM/M3	2000	75.2	79.9	82.2	65.1	87.4	89.1	89.2	88.7	87.5	83.8	79.8							120.3
(.00460 KG/M3)	2500	74.7	79.9	82.7	84.1	87.9	88.9	89.1	89.9	89.7	84.5	79.8							121.0
NFA 6321. RPM	3150	77.4	82.9	86.4	89.9	91.5	91.9	93.4	95.1	93.7	88.8	84.1							125.8
(662. RAD/SEC)	4000	74.6	80.4	83.1	87.1	88.7	90.6	91.3	92.1	91.4	85.3	80.8							122.6
NFK 6421. RPM	5000	74.1	80.4	83.0	86.8	89.4	90.6	91.5	93.0	91.4	85.7	80.9							122.9
(672. RAD/SEC)	6300	72.4	77.7	80.8	85.2	87.9	88.3	90.5	91.6	89.6	83.9	79.8							121.3
NFB 8023. RPM	8000	71.0	76.9	79.6	84.0	85.2	87.2	88.8	90.1	89.0	82.9	77.7							120.1
(924. RAD/SEC)	10000	71.1	76.8	79.6	83.1	85.6	86.9	88.1	89.8	88.4	82.7	77.2							119.9
NO. OF BLADES 15	12500	71.3	75.2	78.7	81.9	84.3	85.8	87.5	90.5	87.2	81.4	76.4							119.5
FAN TIP SPEED	16000	67.6	71.7	75.4	78.9	82.3	83.8	86.1	87.3	84.8	79.3	74.4							117.5
952. FT/SEC	20000	69.1	71.1	74.9	77.8	81.1	83.7	86.1	88.2	85.7	80.1	74.0							118.2
	25000	70.8	72.1	73.7	77.2	80.2	82.5	84.5	86.6	84.3	77.9	72.8							117.2
	31500	69.1	70.5	72.7	77.1	79.8	82.0	83.3	85.1	83.8	77.6	71.8							117.3
	40000	66.4	67.7	73.6	74.7	76.7	79.4	81.6	82.7	80.7	75.8	67.2							114.3
	50000	67.9	66.3	69.5	71.1	72.8	75.5	78.5	77.9	78.3	72.4	65.7							114.4
	63000	68.9	66.2	69.4	69.9	70.5	72.5	73.6	72.4	71.2	69.5	66.2							113.6
	80000	79.4	69.5	71.2	72.1	72.7	74.2	73.9	73.9	72.2	78.7	68.2							119.8
OVERALL MEASURED																			
OVERALL CALCULATED		86.9	91.5	94.7	97.2	99.8	100.4	101.5	102.8	101.5	98.7	93.7							133.4
	PWL	99.8	104.8	107.8	110.8	112.4	113.3	114.5	115.9	114.8	110.5	106.7							

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FULL SCALE DATA PROCESSING PROGRAM

PROC. DATE = MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (RE. DEC. F. 70 PERCENT REL. HUM. DAVE

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE DEG. FR.	80																	
(60.58 M)	100	48.0	51.3	50.7	55.6	52.4	51.7	53.7	50.6	48.4	49.5	49.2						
VEHICLE R-55	125	45.1	47.8	49.8	50.0	51.6	50.4	49.4	50.0	50.2	49.9	49.0						
CONFIG 10	160	45.0	47.2	47.4	49.4	51.0	50.1	53.6	50.9	51.4	51.7	49.2						
LOC SCHENECTADY	200	45.0	45.6	48.2	49.6	51.6	53.0	52.7	50.1	53.2	52.8	50.5						
DATE 11/15/74	250	46.4	49.0	51.6	53.0	53.1	53.7	53.6	53.7	52.3	51.9	49.8						
RUN 1905	315	47.5	50.7	52.5	53.4	53.7	54.8	54.0	54.4	53.0	51.7	47.7						
TAPE	400	46.7	49.3	50.7	52.1	53.2	53.5	53.2	53.5	51.8	49.9	45.5						
BAR 29.7 IN-HG	500	45.1	48.2	49.3	51.0	52.5	53.2	53.3	53.4	51.4	49.4	44.4						
(3061. N/M2)	630	46.5	48.9	52.6	53.9	55.2	56.3	55.7	55.8	54.8	51.2	44.4						
TAMB 43. DEG F	800	49.1	51.3	53.4	54.1	55.6	55.7	56.8	56.1	54.6	50.9	44.0						
(279. DEG K)	1000	46.8	50.6	53.8	54.2	55.5	56.8	57.4	56.8	55.7	50.2	42.4						
THET 36. DEG F	1250	47.9	52.5	55.1	56.6	58.2	59.7	60.4	60.5	58.2	51.4	44.0						
(276. DEG K)	1600	53.9	61.3	66.7	66.7	67.8	69.1	68.6	68.3	66.6	56.9	47.8						
RHOT 4.60 GM/M3	2000	50.5	56.2	59.8	62.1	64.4	65.6	64.9	63.1	59.8	52.5	44.2						
(.00400 G/M3)	2500	49.8	56.8	59.3	63.9	64.7	65.2	64.7	64.1	61.9	53.7	43.4						
NFA 6321. RPM	3150	52.2	58.7	62.8	66.5	67.9	67.9	68.6	69.0	65.5	57.4	47.1						
(662. RAD/SEC)	4000	48.9	55.7	59.8	63.3	64.8	66.2	66.8	65.4	62.6	53.8	42.6						
NFK 6421. RPM	5000	43.1	55.4	58.7	62.8	65.2	65.9	66.8	66.8	62.1	53.8	41.1						
(672. RAD/SEC)	6300	45.5	52.3	55.7	59.5	62.2	62.9	64.2	63.6	59.3	49.8	38.8						
NFD 8823. RPM	8000	42.9	50.8	53.4	58.1	58.3	60.7	61.2	60.7	57.8	46.6	33.4						
(924. RAD/SEC)	10000	41.2	47.5	51.9	55.7	58.1	58.8	58.8	58.6	54.1	43.4	28.4						
NO. OF BLADES 15	12500	38.8	44.3	48.8	52.3	54.6	55.4	55.7	56.3	49.4	37.6	21.1						
FAN TIP SPEED	16000	33.8	38.9	41.8	45.7	48.9	49.5	50.2	48.5	41.4	28.2	8.3						
552. FT/SEC	20000	25.6	31.2	36.4	40.9	43.8	44.5	44.7	43.2	35.8	19.4							
	25000	20.3	24.8	28.3	32.6	35.2	36.1	35.3	32.2	23.8	3.5							
	31500	9.7	12.5	17.2	22.5	24.3	25.1	22.8	18.4	7.8								
	40000				5.3	6.8	7.8	4.1										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.5	67.1	70.9	73.3	74.9	75.7	75.7	75.5	72.5	65.5	59.3						
	PNDB	74.5	80.5	84.1	87.3	88.6	89.3	89.6	89.6	86.5	79.1	70.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 4 YR. 12.5

NUMBER SOUND PRESSURE LEVELS (REF. 0.0002 DYNE/CM**2) (REF. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)												
		50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	73.0	71.6	72.7	73.6	73.5	74.7	73.7	74.2	76.0	81.4	85.3							116.5
VEHICLE A-99	125	74.5	79.1	78.4	77.3	77.3	77.7	76.4	78.7	79.9	81.7	84.6							118.8
CONFIG 19	160	76.0	73.1	73.7	74.8	75.3	76.5	77.2	78.7	81.2	83.7	84.8							118.3
LOC SCHENECTADY	200	75.9	71.6	72.7	75.8	77.5	79.8	78.9	80.9	82.2	84.7	86.3							119.6
DATE 11/15/74	250	76.5	75.6	77.2	78.8	79.8	80.2	80.9	81.4	82.4	84.4	85.6							119.5
RUN 19/4	315	75.7	77.1	78.2	78.6	79.8	80.8	80.2	81.7	81.9	84.2	84.3							119.2
TAPE	400	75.3	75.1	75.9	77.1	78.8	79.2	79.9	80.7	81.4	82.7	82.6							118.1
BAR 29.7 HG	500	74.0	73.3	74.9	77.1	78.3	79.5	80.4	81.2	80.9	81.9	81.6							118.0
(1005.2 MB)	630	75.8	75.3	77.4	77.6	80.6	82.5	82.2	83.2	83.7	82.7	81.3							119.8
TAMB 43. DEG F	800	81.1	76.1	78.4	80.9	82.6	82.8	82.9	83.9	83.7	82.7	81.3							119.9
(279. DEG K)	1000	76.1	76.6	78.7	79.9	80.8	82.8	83.9	85.4	84.9	82.2	79.8							119.9
TWET 38. DEG F	1250	75.4	77.1	78.7	81.2	82.8	84.6	86.7	87.9	86.9	83.2	80.6							117.8
(276. DEG K)	1600	78.6	82.4	83.4	86.7	89.4	92.1	93.2	93.2	91.2	86.8	82.3							123.6
HACT 4.60 GM/M3	2000	81.4	85.7	86.4	89.8	92.4	94.6	95.2	94.7	93.8	88.8	84.3							125.8
(.00400 KG/M3)	2500	78.6	83.2	86.2	89.8	91.4	91.6	93.1	94.1	91.5	87.8	82.6							124.4
NFA 7119. RPM	3150	79.4	84.2	87.1	90.6	92.2	93.4	94.1	96.8	93.7	88.3	84.8							125.9
(745. RAD/SEC)	4000	79.8	85.2	87.8	91.3	93.4	95.1	95.8	98.3	94.4	88.8	85.3							127.4
NFK 7231. RPM	5000	78.9	83.9	87.3	90.5	92.7	94.5	94.8	95.5	92.9	87.2	82.7							126.0
(757. RAD/SEC)	6300	76.6	82.5	85.5	88.4	90.9	92.8	93.3	95.3	91.4	86.9	82.1							124.6
NFB 6023. RPM	8000	75.8	80.9	84.6	87.7	89.5	91.2	93.1	93.8	90.5	86.2	80.7							123.0
(924. RAD/SEC)	10000	76.3	80.5	83.6	87.5	89.1	91.1	92.9	94.1	90.7	85.2	80.7							123.0
NO. OF BLADES 15	12500	77.8	79.8	82.5	86.1	88.3	90.8	92.8	93.5	89.4	84.6	79.7							123.1
FAN TIP SPEED	16000	75.1	76.2	79.9	83.8	85.7	87.7	89.9	91.6	87.3	82.3	77.4							121.3
821. FT/SEC	20000	76.3	75.6	79.1	83.8	85.9	87.7	89.9	92.0	88.5	82.6	77.5							122.0
	25000	78.6	74.6	78.2	82.2	84.4	86.5	88.7	90.8	87.6	81.7	76.1							121.9
	31500	77.6	73.8	76.7	81.3	83.5	86.2	87.6	89.6	86.3	80.4	74.8							121.4
	40000	77.9	72.2	74.6	79.6	81.2	84.4	85.8	86.7	83.9	78.3	69.7							120.0
	50000	74.9	69.8	72.8	78.1	78.8	81.7	82.2	82.2	79.8	75.8	67.4							119.3
	63000	70.1	67.2	70.1	77.4	77.7	79.7	76.4	75.7	74.2	71.5	64.5							119.1
	80000	68.4	69.0	70.7	77.5	78.2	79.4	75.1	75.1	73.2	71.9	64.5							123.2
OVERALL MEASURED																			
OVERALL CALCULATED		92.5	94.3	96.8	100.8	102.8	103.7	104.8	106.1	103.3	99.2	96.9							130.6
PWSB		103.6	107.6	110.8	113.1	115.8	116.6	117.4	119.2	116.3	112.1	109.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	139. (2.42)	148. (2.60)	159. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	50.0	49.3	50.9	52.0	51.9	52.7	51.0	50.4	51.6	53.8	53.9						
VEHICLE R-SS 125	51.4	55.8	56.6	55.7	55.5	55.6	53.7	54.8	54.5	53.9	53.0						
CONFIG 19 160	52.8	50.7	51.8	53.1	53.5	54.3	54.3	54.7	55.6	55.7	53.0						
LOC SCHENECTADY 200	51.7	49.1	50.7	54.0	55.6	56.7	56.0	56.8	56.5	56.6	54.2						
DATE 11/15/74 250	53.1	53.0	55.1	56.9	57.8	57.9	57.9	57.2	56.6	56.1	53.2						
RUN 19/6 315	52.2	54.4	56.0	56.8	57.0	57.5	57.0	57.4	56.0	55.7	51.7						
TAPE 400	51.7	52.3	53.7	55.0	55.9	56.7	56.7	56.3	55.3	54.1	49.7						
BAR 29.7 HG 500	53.3	51.0	52.6	55.0	55.8	56.9	57.1	56.7	54.7	53.1	48.4						
(100162. N/M2) 630	52.0	52.9	55.0	57.4	58.2	59.8	58.7	58.5	57.3	53.7	47.9						
TAMB 43. DEG F 800	57.1	53.0	55.9	58.5	60.1	59.9	59.3	59.1	57.1	53.4	47.5						
(279. DEG K) 1000	52.0	53.4	56.0	57.4	58.2	59.8	60.2	60.5	58.2	52.7	45.7						
TWET 38. DEG F 1250	51.1	53.7	55.8	58.5	60.1	61.4	62.8	62.8	60.0	53.4	46.0						
(276. DEG K) 1600	54.1	58.8	60.4	63.9	66.5	66.8	69.1	67.8	64.0	56.6	47.3						
WACT 4.60 GM/M3 2000	56.7	61.9	63.2	66.9	69.3	71.1	70.9	69.1	65.4	58.3	48.7						
(.00460 KG/M3) 2500	53.7	59.2	62.8	66.7	68.2	67.9	68.7	68.3	63.7	56.2	46.4						
NFA 7119. RPM 3150	54.1	60.0	63.5	67.2	68.7	69.4	69.3	70.5	65.5	56.9	47.6						
(745. RAD/SEC) 4000	54.1	60.5	63.8	67.5	69.5	70.7	70.5	71.6	65.6	56.5	47.1						
NFK 7231. RPM 5000	52.5	58.9	63.0	66.5	68.5	69.9	69.2	68.5	63.6	54.5	43.8						
(757. RAD/SEC) 6300	49.8	56.8	60.5	63.7	65.9	66.6	66.9	67.4	61.1	52.8	41.1						
NFD 8823. RPM 8000	47.6	54.3	58.4	61.8	63.5	64.7	65.5	64.5	58.5	49.8	36.4						
(924. RAD/SEC) 10000	46.9	52.3	55.9	60.2	61.6	63.0	63.6	62.8	56.3	45.9	31.9						
NO. OF BLADES 15 12500	45.2	48.1	52.5	56.5	58.6	59.6	60.2	59.3	51.6	40.8	24.3						
FAN TIP SPEED 16000	38.2	41.4	46.3	49.9	52.4	53.5	53.9	52.7	43.9	31.2	11.3						
621. FT/SEC 20000	33.8	35.7	40.6	45.1	47.7	48.4	48.5	47.0	37.7	21.9							
25000	28.3	27.3	32.8	37.5	39.4	40.1	39.6	37.0	26.2	7.3							
31500	15.2	15.7	21.2	26.7	28.5	29.3	27.0	22.9	9.5								
40000			4.0	10.3	11.3	11.9	8.1	0.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	66.1	69.7	72.5	75.8	77.6	78.8	78.6	78.6	74.1	68.1	62.9						
PNDB	78.2	83.1	86.1	89.4	91.3	92.4	92.3	92.7	87.8	80.6	72.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY) — PROC. DATE = MONTH 12 DAY 4 HR. 12.5

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. M)	100	74.0	74.5	75.9	75.8	77.0	77.7	77.9	78.1	80.3	84.6	89.3							113.9
VEHICLE BASS	125	77.0	77.0	77.6	77.5	80.0	81.0	81.2	82.1	83.1	85.1	88.5							115.4
CONFIG. 19	160	78.0	76.5	77.1	77.8	78.5	79.0	80.6	82.4	84.1	86.6	88.8							115.6
LOC SCHENECTADY	200	76.5	75.3	77.4	77.3	78.8	82.0	81.9	84.4	85.3	87.5	89.8							116.7
DATE 11/15/74	250	78.5	79.5	81.6	82.6	83.0	84.2	85.4	86.4	86.6	87.3	89.5							118.4
RUN 19/7	315	78.2	79.8	80.6	81.8	82.3	83.7	83.7	84.9	85.8	87.3	88.5							117.6
TAPE	400	77.3	78.3	79.4	80.1	81.0	82.0	82.9	84.4	84.6	85.6	86.5							116.3
BAR 29.7 HG	500	76.3	77.3	78.4	79.9	81.0	82.5	83.4	84.4	84.3	85.1	85.0							116.1
(100162. N/M2)	630	77.8	79.5	80.6	82.6	83.8	85.5	85.7	86.4	86.6	85.8	85.5							118.2
TAMB 43. DEG F	800	62.1	61.5	63.9	67.4	84.3	85.3	86.7	87.1	87.1	85.3	86.5							119.0
(279. DEG K)	1000	77.6	79.5	81.6	82.4	83.8	85.0	86.1	87.4	87.1	84.1	83.8							118.2
TRET 38. DEG F	1250	77.6	80.1	82.4	83.4	85.1	87.1	88.7	89.9	89.1	84.8	84.1							120.0
(276. DEG K)	1600	77.9	81.6	84.1	86.2	89.1	89.6	90.4	90.9	89.6	84.8	82.6							121.7
MACT 4.60 GM/M3	2000	87.9	88.2	92.6	96.3	97.7	101.1	100.4	100.1	96.1	91.6	87.6							131.2
(.00400 KG/M3)	2500	81.4	86.1	89.4	92.0	94.4	95.1	95.1	97.1	93.6	88.8	85.3							127.1
NFA 7901. RPM	3150	81.1	86.6	89.4	92.6	94.4	94.9	95.1	97.3	94.6	89.2	86.0							127.3
(827. RAD/SEC)	4000	83.1	88.1	91.6	94.8	96.7	98.1	98.8	99.8	95.8	91.1	88.5							129.8
NFK 8026. RPM	5000	85.8	88.8	90.0	93.3	95.7	96.8	97.5	97.7	93.3	88.6	84.9							128.4
(840. RAD/SEC)	6300	85.9	87.4	91.0	93.4	95.0	96.8	97.0	98.3	93.3	88.8	84.8							128.4
NFD 8823. RPM	8000	78.8	84.8	88.3	90.9	93.0	94.0	95.8	97.0	92.0	87.5	83.7							126.7
(924. RAD/SEC)	10000	79.1	84.4	88.1	91.3	92.8	94.3	95.9	96.6	92.6	87.3	83.6							126.8
NO. OF BLADES 15	12500	80.0	83.4	87.2	90.3	93.5	94.5	95.8	96.7	91.3	87.0	83.1							127.0
FAN TIP SPEED	16000	76.6	80.7	83.8	86.8	89.2	91.2	93.4	94.8	89.4	84.4	81.2							124.6
690. FT/SEC	20000	76.8	80.3	83.8	87.0	89.6	91.9	93.4	94.9	90.4	85.0	81.0							125.3
	25000	80.8	81.6	83.2	84.2	88.9	91.2	93.5	94.5	90.7	85.0	80.5							125.7
	31500	80.1	80.5	82.2	85.0	88.2	89.9	91.5	92.8	89.7	84.0	78.2							125.1
	40000	76.1	77.2	80.4	83.1	85.2	87.9	89.8	90.1	87.1	82.0	74.4							124.2
	50000	77.4	76.3	78.7	80.3	82.0	84.9	87.5	85.9	83.0	79.7	74.4							123.8
	63000	75.1	75.4	78.3	78.6	80.0	82.2	82.6	81.9	79.4	77.6	75.9							122.7
	80000	80.4	76.9	80.2	80.0	81.5	83.2	82.9	83.3	80.1	78.5	78.2							127.9
OVERALL MEASURED																			
OVERALL CALCULATED		94.2	97.6	100.7	103.6	105.5	107.3	107.9	108.8	105.1	101.4	100.4							139.8
	PNOP	106.2	110.6	113.6	116.4	118.2	119.6	120.2	121.2	118.0	114.2	112.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.0	52.3	54.1	54.3	55.4	55.7	55.2	54.4	55.0	56.9	57.9						
125	53.9	54.7	55.8	55.9	58.3	58.9	58.4	58.3	57.6	57.3	56.9						
160	54.8	54.1	55.2	56.1	56.7	56.6	54.1	58.4	58.5	58.6	56.9						
200	53.2	53.3	55.4	56.3	57.9	59.7	59.0	60.3	59.6	59.4	57.7						
250	55.1	56.9	59.5	60.7	61.3	61.9	62.4	62.2	60.8	59.0	57.2						
315	54.7	57.1	58.5	59.9	60.2	61.3	60.5	60.6	59.9	58.8	55.9						
400	53.7	55.5	57.1	58.0	58.9	59.5	59.7	60.0	58.5	56.9	53.7						
500	52.6	54.4	56.0	57.7	58.8	59.9	60.1	59.9	58.1	56.2	51.9						
630	54.0	56.6	58.2	60.4	61.5	62.8	62.2	61.7	60.2	56.8	52.1						
800	55.1	58.4	61.3	61.0	61.9	62.4	63.1	62.3	60.5	56.1	52.8						
1000	51.5	56.3	58.9	59.9	61.2	62.1	62.4	62.4	60.3	54.6	49.6						
1250	53.3	56.7	59.6	60.8	62.4	63.9	64.8	64.7	62.1	55.1	49.5						
1600	53.4	59.0	61.1	63.4	65.3	66.3	66.3	65.5	62.4	54.5	47.5						
2000	59.2	65.1	69.4	73.3	74.6	77.6	76.1	74.5	68.6	61.1	51.9						
2500	56.5	62.2	66.0	66.9	71.2	71.4	70.6	71.3	65.8	57.8	49.2						
3150	55.9	62.4	65.7	69.2	70.9	70.9	70.3	71.2	66.4	57.8	49.1						
4000	57.4	63.4	67.5	71.0	72.8	73.7	73.5	73.1	67.8	58.9	50.3						
5000	54.8	61.9	65.7	69.2	71.5	72.1	71.9	70.7	64.1	55.9	46.0						
6300	54.0	61.7	65.9	68.7	70.2	71.4	70.7	70.4	63.0	54.7	43.8						
8000	53.6	58.0	62.1	65.1	67.3	67.4	68.2	67.7	59.9	51.2	39.4						
10000	49.1	55.9	60.4	63.9	65.3	66.2	66.6	65.3	58.2	48.0	34.9						
12500	47.5	52.5	57.3	60.8	63.8	64.1	63.9	62.5	53.6	43.2	27.8						
16000	39.7	45.9	50.2	53.6	55.9	57.0	57.4	55.9	46.0	33.3	15.0						
20000	34.3	40.4	45.3	49.1	51.5	52.7	52.0	49.9	39.6	24.3	0.6						
25000	30.2	34.3	37.8	41.5	43.9	44.8	44.3	40.7	29.4	10.7							
31500	17.7	22.4	26.6	30.4	33.2	33.1	31.0	25.8	12.9								
40000		3.1	9.7	13.8	15.3	15.4	12.4	4.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.1	72.6	76.2	79.3	80.9	82.3	81.7	81.1	76.0	70.4	66.6						
PNDB	80.8	86.2	89.7	92.7	94.4	95.7	95.1	94.7	89.5	82.6	75.3						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 19
LOC SCHENECTADY
DATE 11/15/74
RUN 197
TAPE
BAR 29.7 MG (1001.62. N/M2)
TAMB 43. DEG F (279. DEG K)
TWET 38. DEG F (276. DEG K)
HACT 4.60 GM/M3 (.00400 KG/M3)
NFA 7901. RPM (827. RAD/SEC)
NFK 8026. RPM (840. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 696. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.5	74.3	76.1	76.3	77.5	78.7	79.2	78.9	80.3	84.8	88.8							114.0
125	77.0	76.5	76.6	77.8	80.3	81.0	81.4	82.6	83.3	85.1	88.5							115.5
160	76.5	75.5	77.1	78.6	78.5	80.2	81.7	82.9	84.6	86.6	88.3							115.8
200	75.2	76.0	77.1	78.3	80.0	82.2	82.2	84.1	85.1	87.5	90.0							116.8
250	77.5	79.5	81.6	82.8	83.3	84.2	85.4	86.1	86.1	87.5	89.3							118.4
315	77.7	79.8	81.1	81.9	82.3	83.2	83.9	84.9	85.6	86.8	88.3							117.5
400	76.8	78.0	79.1	80.1	81.3	82.5	83.2	83.9	84.1	85.6	86.5							116.2
500	75.3	77.5	78.1	79.9	80.8	82.3	83.2	84.4	84.3	84.6	85.0							115.9
630	77.3	79.3	81.1	82.4	83.8	85.3	85.7	86.6	86.1	85.6	85.0							118.1
800	81.8	81.5	83.6	83.1	84.6	85.3	86.4	87.1	86.8	85.6	85.6							118.9
1000	77.6	79.5	81.6	82.1	83.6	85.5	86.2	87.6	86.8	83.8	83.3							118.2
1250	77.1	80.1	81.9	83.4	84.9	87.3	88.4	89.6	88.4	84.4	83.6							119.8
1600	77.6	81.3	83.9	85.5	87.9	89.6	89.9	90.6	88.9	84.4	82.3							121.3
2000	84.1	88.6	91.6	96.3	97.4	100.3	100.4	99.6	96.6	91.6	87.1							130.9
2500	80.9	86.1	88.9	92.3	93.9	95.1	95.4	96.9	93.4	87.9	85.1							127.0
3150	81.1	86.6	89.1	92.6	94.5	95.4	95.1	97.3	94.1	88.7	85.6							127.3
4000	82.8	88.6	91.1	95.1	96.2	97.6	98.6	99.0	95.6	90.6	87.5							129.5
5000	80.3	87.1	89.8	93.3	94.9	96.3	97.3	97.2	93.1	88.1	84.5							128.0
6300	80.4	87.2	91.2	93.2	95.1	96.1	97.3	98.3	92.8	88.6	84.6							128.3
8000	78.5	84.9	88.3	91.0	92.5	94.2	95.6	97.1	92.2	87.1	82.9							126.7
10000	79.1	84.5	87.6	91.1	92.6	94.1	95.7	96.6	91.9	87.1	82.9							126.6
12500	79.4	83.5	87.2	89.9	93.1	94.6	95.6	96.5	91.1	86.8	82.9							126.8
16000	75.9	80.5	84.2	86.9	89.6	90.8	92.5	94.3	89.2	84.5	80.5							124.2
20000	76.7	80.6	83.9	87.6	89.2	91.8	93.5	94.5	90.0	84.8	80.6							125.1
25000	80.3	81.5	83.4	86.7	89.2	91.0	93.2	94.3	90.3	84.3	80.5							125.5
31500	80.1	80.7	81.7	85.3	88.0	90.0	91.6	92.6	89.0	83.7	78.5							125.0
40000	75.8	77.1	80.0	83.3	84.9	87.3	89.5	89.6	86.3	81.4	74.9							123.8
50000	77.2	76.4	78.9	80.4	82.1	85.0	87.3	85.5	83.1	79.4	74.8							123.0
63000	78.1	75.6	78.6	79.4	80.5	82.8	83.6	81.9	80.4	78.1	75.2							123.3
80000	80.1	76.6	80.1	81.4	83.2	85.1	85.3	84.8	82.8	79.5	77.9							129.4
OVERALL MEASURED																		
OVERALL CALCULATED	93.9	97.7	100.5	103.6	105.3	107.0	107.8	108.5	104.9	101.2	100.1							139.8
PNDB	105.9	110.8	113.3	116.5	117.8	119.3	120.1	120.8	117.7	113.8	111.6							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.32)	60. (1.19)	70. (1.36)	83. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	50.5	52.3	54.4	54.8	55.9	56.7	56.5	55.1	55.0	57.2	57.4						
125	53.9	54.2	54.8	56.2	58.3	58.9	58.6	58.8	57.9	57.3	56.9						
160	53.3	54.1	55.2	56.9	58.7	58.0	58.8	58.9	59.0	58.6	56.4						
200	51.9	53.5	55.1	58.5	58.1	60.9	59.2	60.0	59.4	59.4	57.9						
250	54.1	55.2	59.5	60.9	61.3	61.9	62.4	61.9	60.3	59.3	56.9						
315	54.2	57.1	59.0	59.9	60.2	60.8	60.8	60.6	59.6	58.3	55.7						
400	53.2	55.3	56.9	58.0	59.1	60.0	59.9	59.5	58.0	56.9	53.7						
500	51.6	54.7	55.8	57.7	58.6	59.6	59.8	59.9	58.1	55.7	51.9						
630	53.5	56.3	58.7	60.1	61.5	62.5	62.2	62.0	59.7	58.5	51.6						
800	57.9	58.4	61.1	60.8	62.1	62.4	62.8	62.3	60.3	56.3	51.8						
1000	53.5	56.3	58.9	59.6	61.0	62.6	62.4	62.7	60.1	54.3	49.1						
1250	52.8	55.7	59.1	60.8	62.1	64.2	64.5	64.5	61.4	54.6	49.0						
1600	53.1	57.8	60.9	62.7	65.0	66.3	65.8	65.3	61.6	54.3	47.2						
2000	59.4	64.9	68.5	73.3	74.4	76.9	76.1	74.0	69.1	61.1	51.4						
2500	56.0	62.2	65.5	69.2	70.7	71.4	70.9	71.1	65.6	57.1	48.9						
3150	55.9	62.4	65.5	69.2	71.0	71.4	70.3	71.2	65.9	57.3	48.6						
4000	57.1	63.9	67.0	71.3	72.3	73.2	73.3	72.3	66.7	58.4	49.3						
5000	54.3	62.2	65.5	69.2	70.8	71.7	71.7	70.2	63.8	55.4	45.5						
6300	53.5	61.5	66.2	68.4	70.2	70.7	70.9	70.4	62.5	54.4	43.5						
8000	50.4	58.0	62.2	65.1	66.6	67.7	68.0	67.7	60.2	50.8	38.7						
10000	49.2	56.3	59.9	63.7	65.1	66.0	66.4	65.3	57.5	47.8	34.2						
12500	46.8	52.6	57.3	60.3	63.4	64.1	63.7	62.3	53.4	43.0	27.6						
16000	39.1	45.7	50.5	53.7	56.2	56.6	56.5	55.5	45.9	33.4	14.3						
20000	34.2	40.7	45.4	49.7	51.1	52.5	52.1	49.5	39.2	24.1	0.2						
25000	29.8	34.3	38.0	42.0	44.2	44.6	44.1	40.4	28.8	9.9							
31500	17.7	22.7	26.1	30.7	33.0	33.1	31.0	25.9	12.1								
40000		3.1	9.4	14.8	15.0	14.9	12.1	3.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	67.8	72.7	75.9	79.3	80.7	81.9	81.6	80.8	75.8	70.3	66.3						
PNDB	80.5	86.3	89.4	92.8	94.0	95.3	95.0	94.3	89.2	82.2	74.7						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 19
LCC SCHENECTADY
DATE 11/15/74
RUN 19/8
TAPE
BAR 29.7 HG (100562. N/M2)
TAMB 44. DEG F (280. DEG K)
THET 36. DEG F (279. DEG K)
HACT 4.30 GM/M3 (.00430 KG/M3)
NFA 7896. RPM (827. RAD/SEC)
NFK 6013. RPM (629. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 689. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	63. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	68.5	72.1	75.9	76.6	75.5	74.8	72.4	69.4	70.9	74.9	77.8							108.3
125	67.9	66.1	70.7	68.4	70.5	68.9	68.9	71.4	72.4	73.7	76.1							106.6
160	67.5	65.6	67.4	67.4	68.3	69.0	70.2	71.4	73.7	75.7	76.6							106.8
200	67.5	65.6	67.2	68.4	70.3	72.0	72.4	74.2	74.9	77.2	78.3							108.4
250	66.5	68.6	69.9	71.1	71.5	72.5	73.2	74.2	74.2	75.9	76.6							108.5
315	68.6	69.8	71.2	71.9	72.5	73.0	73.4	74.4	74.9	76.2	77.1							107.1
400	67.3	69.3	70.4	71.4	71.8	73.5	73.4	74.7	75.2	75.2	75.6							106.8
500	66.3	68.1	68.9	70.2	71.8	73.0	73.9	74.2	74.2	74.9	76.8							106.9
630	68.1	70.3	71.7	73.7	74.9	76.1	76.7	77.4	77.7	77.7	74.8							109.1
800	72.1	72.1	74.2	74.2	75.8	77.1	78.4	79.2	78.9	78.2	76.1							113.5
1000	68.6	71.3	73.4	74.4	75.6	77.6	78.4	79.7	80.4	77.9	73.8							110.6
1250	74.1	76.6	77.7	79.2	81.6	83.1	85.2	86.2	87.2	85.0	79.8							116.9
1600	71.9	75.9	77.9	80.3	82.1	83.9	84.9	86.4	86.2	83.0	77.4							116.7
2000	71.9	75.9	78.4	82.1	84.4	86.4	86.7	85.7	84.5	81.5	77.1							117.5
2500	73.7	78.9	81.2	84.4	86.4	88.2	89.4	89.7	90.0	83.8	79.6							120.5
3150	72.9	78.2	80.4	84.1	86.5	87.7	88.9	89.4	90.5	84.3	79.6							120.3
4000	71.9	77.2	79.6	83.6	86.0	87.1	88.6	90.1	88.9	84.0	79.3							120.0
5000	70.1	75.4	78.1	82.4	84.7	86.3	87.0	88.0	87.9	81.7	76.5							118.5
6300	69.2	74.0	77.0	81.0	83.6	84.3	85.8	87.9	87.2	80.5	76.1							117.6
8000	67.3	72.2	75.1	79.0	81.3	83.3	84.9	86.4	86.3	80.2	75.0							116.4
10000	68.1	71.6	74.2	78.9	80.9	82.7	84.7	86.4	86.0	79.9	74.5							116.3
12500	69.1	70.3	73.8	77.2	80.8	82.1	84.3	86.3	85.0	78.4	74.0							116.0
16000	65.2	67.6	70.7	74.4	77.6	80.1	82.2	84.1	83.1	76.8	72.5							114.1
20000	65.7	66.7	70.2	74.9	76.7	79.8	82.0	84.3	82.8	76.7	72.1							114.4
25000	66.6	67.6	69.2	73.0	74.9	77.8	79.5	81.0	80.6	74.7	70.6							112.6
31500	71.1	70.5	69.2	72.4	75.0	77.2	79.1	81.1	80.0	74.1	69.3							113.4
40000	66.6	65.4	66.8	70.1	72.2	74.9	77.0	77.9	77.1	72.3	67.2							112.0
50000	67.5	65.2	67.4	68.0	69.4	71.8	74.1	73.3	73.0	69.5	67.8							110.8
63000	68.6	65.2	68.2	67.2	68.3	70.3	70.6	69.9	69.0	68.0	67.8							111.6
80000	70.1	67.2	69.9	68.0	69.7	71.7	72.3	71.1	70.1	69.1	68.4							116.9
OVERALL MEASURED																		
OVERALL CALCULATED	84.5	87.6	89.8	92.9	95.1	96.6	97.9	99.0	98.8	94.2	90.8							129.9
PNDB	96.4	100.7	102.9	106.1	108.3	109.6	110.7	111.8	111.9	107.2	103.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 4 HR. 12.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.																	
50																	
63																	
SIDELINE 200. FT.																	
(60.96 M) 100	45.5	49.8	54.2	55.1	53.9	52.7	49.7	45.6	45.6	47.3	46.4						
VEHICLE R-SS 125	44.6	43.8	48.8	46.7	49.8	46.7	46.2	47.6	47.0	45.9	44.5						
CONFIG 19 160	44.3	44.2	45.5	45.7	46.2	46.8	47.3	47.4	48.1	47.7	44.7						
LOC SCHENECTADY 200	44.2	44.1	45.2	46.6	48.4	49.7	49.5	50.1	49.2	49.1	46.2						
DATE 11/15/74 250	43.1	46.0	47.8	49.2	49.8	50.2	50.1	50.0	48.3	47.8	44.2						
RUN 19/9 315	44.5	47.2	49.0	49.9	50.5	50.6	50.3	50.1	49.0	47.7	44.5						
TAPE 400	43.7	46.6	48.2	49.3	49.7	51.0	50.2	50.3	49.1	46.8	42.7						
BAR 29.7 HG 500	42.6	45.2	46.6	48.0	49.6	50.4	50.6	49.7	47.9	46.1	43.7						
(00162. N/M2) 630	44.3	47.4	49.2	51.4	52.5	53.3	53.2	52.8	51.3	48.7	41.4						
TAMB 44. DEG F 800	43.1	49.0	51.6	51.8	53.4	54.2	54.8	54.4	52.4	48.9	42.3						
(280. DEG K) 1000	44.5	48.1	50.7	51.9	53.0	54.6	54.7	54.7	53.7	48.4	39.7						
THET 38. DEG F 1250	49.9	53.2	54.9	56.6	58.9	60.0	61.3	61.0	60.2	55.2	45.3						
(276. DEG K) 1600	47.4	52.3	54.9	57.5	59.3	60.6	60.8	61.1	59.0	52.9	42.3						
HACT 4.33 GM/M3 2000	47.2	53.2	55.2	59.1	61.4	62.9	62.4	60.1	57.0	51.0	41.5						
(.00430 KG/M3) 2500	48.8	55.3	57.8	61.2	63.2	64.5	64.9	63.8	62.2	52.9	43.5						
NFA 5532. RPM 3150	47.7	54.9	56.8	60.7	63.0	63.7	64.1	63.2	62.3	52.9	42.6						
(579. RAD/SEC) 4000	46.2	52.5	55.5	59.8	62.0	62.7	63.3	63.4	60.1	51.8	41.1						
NFK 5614. RPM 5000	44.1	50.5	53.8	58.3	60.5	61.7	61.5	61.0	58.7	49.0	37.6						
(588. RAD/SEC) 6300	42.3	48.3	52.0	56.2	58.7	59.0	59.4	59.9	56.8	46.3	35.1						
NF2 8823. RPM 8000	39.2	45.3	49.0	53.2	55.3	56.8	57.3	57.0	54.3	43.9	30.7						
(924. RAD/SEC) 10000	38.2	43.1	46.5	51.5	53.4	54.5	55.4	55.1	51.6	40.4	25.7						
NO. OF BLADES 15 12500	36.6	39.4	43.0	47.6	51.1	51.7	52.5	52.1	47.2	34.6	18.6						
FAN TIP SPEED 16000	28.3	32.8	37.1	41.3	44.2	45.8	46.3	45.3	39.7	25.7	6.4						
483. FT/SEC 20000	23.2	26.8	31.7	37.0	38.6	40.5	40.6	39.3	32.8	16.8							
25000	18.8	20.4	23.4	28.3	30.0	31.4	30.4	27.2	19.3	0.3							
31500	8.7	12.5	12.7	17.8	20.0	20.4	18.5	14.4	3.2								
40000				0.8	2.2	2.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.9	63.3	66.0	69.1	71.0	72.0	72.3	71.7	69.8	63.0	56.1						
PNDB	71.0	76.4	79.2	82.7	84.7	85.5	85.8	85.3	83.6	75.7	66.5						

PAGE 1 FULL SCALE DATA SET PLOTTING PROGRAM PRTC. DATE = MONTH 12 DAY 5 HR. 15.1

MODEL SOUND PRESSURE LEVELS (SPL, DEG. F, 70 PERCENT BEL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.1)	7θ. (1.06)	8θ. (1.53)	9θ. (1.71)	10θ. (1.86)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
RADIAL 17. FT.																		
(5. FT) 100	69.7	72.3	77.2	78.4	77.8	76.5	73.7	70.9	71.9	79.4	78.4							110.0
VEHICLE RPSS 125	69.5	68.3	70.7	70.1	71.0	68.8	68.2	70.9	72.7	74.1	76.6							105.3
CONFIG 2D 160	70.8	67.1	67.9	67.4	69.3	68.8	70.2	71.7	73.7	77.4	77.1							105.4
LOC SCHENECTADY 200	71.9	66.8	69.4	68.4	70.5	72.3	72.9	74.4	74.6	78.1	78.4							107.0
DATE 11/15/74 250	71.8	68.6	72.2	71.6	71.5	72.7	73.7	73.9	74.6	76.1	76.9							107.0
RUN 15/1 315	69.5	72.1	71.4	72.1	72.9	73.5	73.2	74.4	74.9	76.9	76.6							107.3
TAPE 400	69.5	69.2	73.2	71.4	72.0	73.3	73.4	74.4	75.1	75.4	74.8							107.0
BAR 29.7 MB 500	69.5	68.6	69.9	70.2	71.1	72.6	73.9	74.7	74.4	74.9	74.1							106.4
(99595. N/M2) 630	71.3	70.1	71.7	73.4	74.5	75.6	76.2	77.9	78.2	77.4	75.6							109.2
TAMB 41. DEG F 800	73.6	71.3	73.7	74.4	75.5	77.1	78.7	79.4	79.1	77.4	75.1							111.1
(278. DEG K) 1000	71.1	71.3	73.9	74.9	76.1	77.6	77.7	80.2	80.6	77.5	74.4							111.0
TWET 39. DEG F 1250	71.1	76.5	77.9	79.5	80.9	82.8	85.7	85.9	87.7	85.2	79.9							116.9
(277. DEG K) 1600	69.6	75.9	77.9	79.5	81.6	83.4	84.4	85.9	86.4	82.9	76.9							116.3
HACT 5.72 GM/M3 2000	69.6	74.4	77.9	81.3	83.9	85.6	85.9	85.4	84.9	80.9	76.6							117.0
(.00572 KG/M3) 2500	71.1	78.4	82.1	84.8	85.9	86.6	89.4	90.1	90.4	84.7	81.4							120.8
NFA 5529. RPM 3150	70.1	78.2	81.4	84.6	86.7	87.9	88.8	89.8	90.4	83.7	81.1							120.5
(579. RAD/SEC) 4000	69.5	77.5	80.8	84.3	86.6	88.6	89.0	91.3	90.3	84.1	79.8							120.9
NFX 5420. RPM 5000	69.5	76.1	79.2	83.2	85.6	87.0	87.4	88.7	86.8	82.6	78.2							119.2
(568. RAD/SEC) 6300	69.5	74.4	77.9	81.7	83.7	85.0	86.2	86.2	86.3	81.3	77.6							118.3
NFD 8923. RPM 8000	69.6	72.8	76.0	79.9	81.8	84.1	85.2	86.5	87.2	80.2	75.9							116.9
(934. RAD/SEC) 10000	70.7	71.6	75.5	79.9	81.2	84.0	85.0	87.0	87.0	81.0	76.3							117.0
NO. OF BLADES 15 12500	72.4	70.3	73.8	77.7	80.6	83.4	83.8	86.1	85.0	79.4	75.6							116.1
FAN TIP SPEED 16000	73.3	67.2	71.2	74.9	77.5	80.3	82.7	84.1	83.8	77.0	75.3							114.4
482. FT/SEC 20000	70.8	66.3	70.1	74.2	76.5	78.7	82.4	83.5	83.7	76.3	76.8							114.3
25000	72.6	66.1	69.2	73.2	74.7	77.3	79.5	81.0	81.6	74.6	77.1							113.0
31500	72.5	65.4	68.4	72.4	74.1	76.9	79.6	80.8	80.7	73.7	76.0							113.3
40000	73.4	64.5	66.3	69.4	71.7	72.9	76.8	77.9	77.6	71.5	77.5							112.6
50000	76.1	65.1	67.8	67.1	69.3	71.7	74.0	73.9	73.3	68.5	81.5							113.2
63000	78.4	65.8	69.3	67.3	67.3	69.9	70.4	69.5	67.5	63.7	76.6							114.4
80000	81.4	68.3	71.2	68.5	69.2	70.4	70.6	70.3	64.1	61.0	75.4							120.1
OVERALL MEASURED																		
OVERALL CALCULATED	83.3	87.6	90.5	93.3	95.3	97.6	98.6	99.3	99.4	94.5	92.4							130.5
PWL	96.8	103.8	103.8	106.5	108.5	110.2	110.8	112.5	112.2	107.3	104.2							

PROG. DATE = MONTH 12 DAY 5 NO. 15.1

OVERALL SOUND PRESSURE LEVELS (SPL, WEG, F, 70 PERCENT ATM. NOM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5a. (1.22)	6a. (1.57)	7a. (1.92)	8a. (2.53)	9a. (1.71)	10a. (1.00)	11a. (2.09)	12a. (2.24)	13a. (2.42)	14a. (2.60)	15a. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.7	50.1	55.4	56.4	56.1	54.5	51.0	47.1	46.6	51.7	47.0						
VEHICLE R-55	125	45.4	46.2	48.4	48.5	49.3	49.7	45.4	47.0	47.2	48.3	45.0						
CONFIG 26	160	46.8	44.7	46.3	45.7	46.2	46.6	47.3	47.7	48.1	49.4	45.3						
LOC SCHENECTADY	200	47.9	44.3	47.4	46.5	48.6	50.9	50.0	50.3	48.9	50.0	46.3						
DATE 11/15/74	250	47.6	46.3	50.1	49.7	49.5	50.4	50.6	49.7	48.8	47.9	44.5						
RUN 16/1	315	45.3	47.4	49.2	50.2	50.7	51.1	50.9	50.1	48.9	49.4	44.9						
TAPE	400	45.9	46.6	50.3	49.3	49.9	50.9	50.2	50.0	49.1	48.7	41.8						
BAR 29.7 IN	500	45.6	45.7	47.4	48.3	48.5	50.2	50.4	50.2	48.2	46.1	41.8						
(1032 95. N/M2)	630	47.5	47.1	49.2	51.2	52.2	53.1	52.7	53.3	51.8	49.4	42.2						
TAMB 41. DEG F	800	45.6	48.7	51.1	52.1	53.1	54.2	55.1	54.6	52.4	48.1	41.3						
(278. DEG K)	1000	47.2	49.1	51.2	52.4	53.5	54.6	54.9	55.2	53.9	48.1	40.2						
TMET 39. DEG F	1250	46.8	51.2	55.1	56.9	58.1	59.7	61.8	60.6	60.7	55.4	45.3						
(277. DEG K)	1600	45.1	52.3	54.9	56.7	58.8	60.1	62.3	60.6	59.2	52.8	41.8						
HACT 5.72 GM/M3	2000	50.9	52.6	54.7	58.1	60.8	62.1	61.6	59.8	57.4	50.4	41.8						
(.00372 KG/M3)	2500	46.9	54.5	58.3	61.7	63.7	65.0	64.9	64.3	62.6	53.8	45.2						
NFA 5322. RPM	3150	44.8	53.9	57.7	61.2	63.2	63.9	64.0	63.7	62.2	52.3	44.1						
(974. MAT/SEC)	4000	43.8	52.9	56.7	60.5	62.7	64.2	63.7	64.6	61.5	51.9	41.6						
NFE 5420. RPM	5000	43.5	51.1	54.9	59.9	61.2	62.4	61.9	61.7	59.6	49.9	39.3						
(988. MAT/SEC)	6300	42.7	49.7	52.9	56.9	58.8	59.8	59.8	60.8	58.0	47.2	38.5						
NFD 8823. RPM	8000	41.5	45.9	49.5	54.8	55.9	57.8	57.6	57.1	55.2	43.9	31.6						
(924. MAT/SEC)	10000	40.7	43.1	47.8	52.6	53.7	55.9	55.7	55.7	52.7	41.7	27.6						
NO. OF BLADES 15	12500	39.8	39.4	43.9	48.2	50.9	52.9	52.8	51.9	47.2	35.6	20.2						
FAN TIP SPEED	16000	37.5	32.4	37.5	41.7	44.2	46.8	46.7	45.3	40.4	25.9	9.1						
482. FT/SEC	20000	28.3	26.4	31.6	36.3	38.5	39.4	41.0	38.4	32.9	15.6							
	25000	22.0	18.8	23.8	28.6	29.7	30.9	30.3	27.2	20.2	0.2							
	31500	13.1	7.4	12.8	18.2	19.1	20.0	18.4	14.0	3.9								
	40000				0.1	1.8	2.9											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		65.9	63.3	66.7	69.4	71.3	72.4	72.3	72.2	70.3	63.5	56.3						
PNL		71.6	76.5	80.1	83.9	84.9	86.0	85.9	86.0	83.9	75.9	67.3						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 5 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59, 63, & 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	FREQ.	5d. (.09)	6d. (.11)	7d. (.13)	8d. (.15)	9d. (.16)	10d. (.18)	11d. (.20)	12d. (.22)	13d. (.24)	14d. (.26)	15d. (.28)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
RADIAL 12. FT.	50																		
	63																		
1 3. FT.	100	73.5	74.6	72.7	72.1	74.0	74.3	73.2	74.4	73.6	77.9	81.9							160.9
VEHICLE FANS	125	72.5	70.6	72.2	72.1	73.3	72.3	71.7	74.9	75.2	77.9	80.6							160.2
CONFIG 2C	160	72.5	69.8	70.4	71.1	71.5	72.5	73.9	75.2	77.7	79.6	81.4							160.7
LOC SOMERSETAR	200	78.7	69.3	70.4	71.6	73.9	75.8	76.2	76.7	78.9	81.1	82.9							110.9
DATE 11/15/74	250	78.2	72.1	73.7	74.5	75.3	74.0	76.9	77.7	78.6	80.1	81.4							110.9
RUN 1842	315	78.5	73.6	74.7	75.5	76.0	76.5	76.9	77.9	78.6	80.4	80.6							111.2
TAPE	400	80.0	72.3	73.4	74.4	74.8	76.0	76.7	77.4	77.9	78.6	78.9							110.6
BAR 29.7 IN	500	82.5	73.6	71.9	72.4	74.6	75.5	76.9	77.7	77.6	79.1	77.9							111.4
(100295. N/M2)	630	83.8	72.5	73.4	74.2	77.1	78.6	79.2	80.4	80.9	80.4	78.4							113.1
TAMB 41. DEG F	800	87.3	73.3	75.8	76.4	77.9	79.3	80.4	81.7	81.4	80.1	77.6							114.8
(276. DEG K)	1000	82.9	73.6	75.9	77.4	78.3	79.8	81.4	82.9	83.1	80.1	77.6							114.2
T-DT 36. DEG F	1250	71.1	75.2	77.4	77.2	80.9	83.3	84.7	85.9	86.2	81.7	78.9							116.2
(277. DEG K)	1600	77.4	84.1	85.7	86.5	88.9	89.9	91.1	93.2	94.2	86.4	82.1							123.4
MACT 5.22 DY/CM	2000	78.1	73.1	80.9	84.3	86.4	86.1	88.6	88.4	87.7	82.7	79.6							119.7
(.00372 N/M3)	2500	71.6	77.9	82.6	84.3	89.2	89.4	90.4	91.1	89.9	84.7	80.6							121.8
NFA 6309. RPM	3150	73.3	82.7	85.6	89.9	91.2	92.0	94.8	95.3	95.4	88.9	85.3							125.7
(661. RAD/SEC)	4000	71.3	80.6	84.3	87.3	89.6	91.1	92.0	92.5	91.6	85.9	81.5							124.1
NFK 6421. RPM	5040	71.5	81.1	85.5	90.5	93.4	91.3	92.4	92.7	91.5	85.6	81.0							123.6
(672. RAD/SEC)	6300	70.0	79.4	81.7	85.7	87.5	89.7	90.2	91.5	90.8	84.0	80.3							121.8
NFD 6823. RPM	8000	69.6	77.3	80.7	84.5	86.4	88.1	89.0	90.7	89.9	83.2	78.6							120.0
(924. RAD/SEC)	10080	71.7	76.4	80.0	83.9	85.7	86.2	89.0	91.5	90.3	83.8	79.6							121.1
NO. OF BLADES 15	12500	72.4	74.5	78.6	82.8	85.3	87.1	88.8	89.8	88.5	82.4	77.8							120.1
FAN TIP SPEED	16000	70.3	71.7	75.2	79.6	82.0	84.5	86.4	88.1	85.3	79.7	75.5							117.9
991. FT/SEC	20160	72.3	71.5	74.3	79.2	81.1	83.4	86.1	88.2	86.2	79.3	74.8							116.2
	25000	73.6	69.9	73.0	77.0	79.2	82.0	84.8	85.8	84.3	77.8	74.1							116.9
	31500	73.0	68.9	72.1	76.5	78.4	81.6	83.2	84.8	83.9	76.9	73.5							117.1
	40000	73.4	67.3	69.9	73.9	75.9	79.2	81.6	82.2	81.4	75.5	71.5							116.3
	50000	76.1	64.3	69.3	70.1	72.3	75.4	78.2	77.9	77.5	71.5	72.7							114.9
	63000	73.2	65.3	69.5	67.7	69.3	70.9	73.2	72.8	73.0	68.5	74.3							115.1
	80000	81.4	66.3	71.2	68.5	69.4	70.4	71.1	70.3	69.6	62.8	71.9							120.1
OVERALL MEASURED		93.3	91.3	94.6	97.1	98.9	100.6	101.9	102.9	102.4	96.8	94.4							133.8
OVERALL CALCULATED		101.6	104.7	107.6	110.6	112.3	113.8	115.3	116.1	115.9	110.6	107.8							

MODEL SOUND PRESSURE LEVELS (DB, W.R.T. P. 20 MICRONEWTONS/SQ. M., FLAT)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5°. (.08)	6°. (.1)	7°. (.13)	8°. (.15)	9°. (.1/)	10°. (.18)	11°. (.20)	12°. (.24)	13°. (.24)	14°. (.25)	15°. (.26)	0°. (0.)	0°. (0.)	0°. (0.)	0°. (0.)	0°. (0.)	0°. (0.)
50																	
63																	
SIZE 1.E 200. FT. 60																	
(60.96 M) 100	53.5	52.3	50.9	50.6	52.4	52.2	50.5	50.6	48.6	50.2	50.5						
VEHICLE DOES 125	49.4	48.3	48.8	50.5	52.1	50.2	48.9	51.0	50.2	50.1	49.8						
CONFIG 20 160	49.3	47.4	44.5	49.4	47.7	50.3	51.1	51.2	52.1	51.7	49.5						
LOC SCHEMECTADY 250	55.4	48.8	48.4	49.8	51.9	53.5	53.2	54.6	53.2	53.0	50.8						
DATE 11/15/74 270	54.8	49.5	51.4	52.7	53.3	53.7	53.9	53.5	52.6	51.8	49.8						
RUN 10/2 315	55.0	50.8	52.5	53.7	54.0	54.1	53.8	53.6	52.7	51.9	48.0						
TAPE 400	55.4	49.8	51.2	52.3	52.7	53.9	53.4	53.0	51.6	50.0	48.0						
BAR 28.7 IN HG 500	57.8	47.7	49.6	51.3	52.3	52.9	53.6	53.2	51.4	49.3	44.7						
(98295. N/M2) 630	61.3	49.7	51.6	53.9	54.7	54.1	55.7	55.8	54.5	51.4	44.9						
TAT@ 41. DEG F 800	63.3	51.7	53.3	54.1	55.4	56.5	56.8	56.9	54.8	50.9	43.8						
(278. DEG K) 1000	63.7	51.4	53.2	54.9	55.7	56.8	57.7	58.8	56.4	50.4	43.5						
THET 39. DEG F 1250	66.8	52.5	54.6	56.6	58.1	60.2	60.8	60.8	58.2	51.9	44.3						
(277. DEG K) 1600	62.9	50.8	52.7	53.7	54.8	56.8	57.1	57.8	56.8	50.3	43.1						
MACT 5.72 GM/M3 2000	57.4	55.4	57.7	61.3	63.3	64.9	64.4	62.8	60.2	52.2	44.8						
(.00572 KG/M3) 2500	49.7	58.3	59.3	63.2	64.9	65.7	65.9	65.3	62.1	53.8	44.5						
NFA 6309. RPM 3150	48.1	58.4	62.3	64.4	67.7	68.7	70.8	69.2	67.2	57.5	48.4						
(661. RAD/SEC) 4000	45.6	55.2	60.2	63.5	65.7	66.7	66.7	65.8	62.7	53.7	43.3						
NFK 6421. RPM 5000	45.5	54.1	60.7	64.7	65.4	66.9	66.9	65.7	62.3	52.9	42.0						
(672. RAD/SEC) 6300	41.2	52.7	56.6	59.9	62.6	64.4	63.8	63.6	60.5	49.8	38.3						
NF2 8623. RPM 8000	41.5	50.7	54.6	58.8	60.4	61.6	61.4	61.4	57.0	46.8	34.4						
(902. RAD/SEC) 10000	41.7	47.9	52.3	56.5	58.2	60.1	59.7	60.2	55.9	44.4	30.8						
NO. OF BLADES 15 12500	39.8	43.7	48.9	52.4	55.6	56.7	57.8	58.7	50.7	38.8	22.5						
FAN TIP SPEED 16000	33.5	38.9	41.5	45.7	48.7	50.3	50.5	49.3	41.9	28.0	9.4						
981. FT/SEC 20000	29.8	30.3	35.8	41.3	43.8	44.2	44.7	43.2	38.4	18.8							
25000	23.8	22.8	27.5	32.3	34.2	35.6	34.4	32.8	23.8	3.2							
31500	16.4	10.9	16.6	21.9	23.4	24.8	22.7	18.8	7.1								
40000				4.6	6.1	6.7	4.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.6	67.5	70.7	73.1	74.6	75.7	76.1	75.6	73.4	68.5	59.7						
PNLB	76.8	68.4	83.8	87.3	88.7	89.7	90.4	89.8	87.6	79.2	70.8						

PAGE 1 FULL SCALE [illegible] PROG, DATE = MONTH 12 DAY 5 HR. 15.2

TUNNEL STATIC PRESSURE LEVELS (PSF, REF. TO 70 PERCENT RAD. NUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																
		0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	
	REF.	(1.62)	(1.19)	(1.06)	(1.53)	(1.71)	(1.84)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	0.	10.	10.	10.	10.	PWL
	30																	
	63																	
RADIAL 17. FT.	AR																	
5. FT	100	73.7	72.3	72.3	72.6	72.8	73.4	73.9	74.2	77.2	82.4	85.8						118.7
VEHICLE [illegible]-55	150	76.8	79.5	74.7	77.5	76.0	77.3	76.9	78.9	79.7	82.7	85.1						113.2
CONFIG 23	190	77.5	73.3	73.4	74.4	74.8	75.3	77.4	74.9	80.7	84.2	85.6						112.5
LOC SCHEDULED	220	77.5	71.6	72.3	74.3	75.5	78.0	78.7	80.9	82.9	85.2	86.3						113.6
DATE 11/15/74	250	69.3	75.6	77.2	77.4	77.3	79.7	80.9	81.7	82.7	84.7	85.6						114.9
RUN 16/3	315	72.7	76.3	74.2	77.9	77.9	80.7	80.7	81.4	82.4	84.4	84.8						114.9
TAPE	410	77.5	76.1	76.4	76.9	77.8	78.6	79.7	81.2	81.2	82.9	83.1						113.3
BAR 28.7 IN	520	71.6	74.1	75.2	77.4	77.3	77.9	79.7	80.9	81.2	82.7	82.1						112.7
(30299. [illegible])	600	75.8	75.5	76.7	74.7	79.8	81.6	82.2	83.4	83.4	83.2	81.8						114.7
TAP@ 42. DEG F	800	69.1	76.6	78.2	78.2	83.6	82.3	83.4	84.2	83.9	82.9	81.6						115.8
(1276. DEG R)	1000	73.1	76.6	79.9	79.7	83.5	82.6	83.9	85.4	84.8	82.2	80.3						115.8
T-CT 39. DEG F	1250	76.4	77.3	79.9	81.2	83.6	85.1	87.2	87.7	87.[illegible]	[illegible]	81.1						116.1
(1277. DEG R)	1600	78.9	81.1	83.7	85.8	88.6	90.4	90.9	92.4	91.4	85.7	82.6						122.5
MACT 5.42 [illegible]	2000	79.1	83.9	85.4	86.3	89.9	93.1	92.9	93.6	91.7	87.9	83.3						124.3
(.08542 [illegible])	2500	75.4	83.4	86.2	86.8	91.7	92.4	92.6	93.9	91.4	86.8	82.6						124.3
MFA 7186. SQFT	3150	76.8	83.2	88.1	91.8	93.2	94.1	94.8	96.8	94.4	89.3	85.8						126.8
(744. SQFT/SEC)	4000	79.1	85.6	88.8	92.3	93.9	94.8	96.3	97.5	96.9	89.7	85.5						127.8
MFK 7223. SQFT	5000	81.8	85.3	88.6	91.9	93.6	95.3	95.7	96.7	93.6	88.2	83.4						127.8
(750. SQFT/SEC)	6300	84.5	82.7	86.8	89.9	91.7	93.5	93.7	96.8	92.1	87.1	82.5						125.5
MFS 8823. SQFT	8000	87.7	82.1	84.7	88.4	90.4	92.4	93.5	94.7	91.5	86.4	81.4						124.8
(924. SQFT/SEC)	10000	90.7	83.9	84.8	88.2	91.5	92.9	93.5	94.7	92.1	86.9	81.8						124.8
NO. OF BLADES 15	12500	91.2	79.6	83.3	87.3	91.1	90.9	92.6	93.8	90.3	85.8	80.8						124.8
FAN TIP SPEED	15000	94.7	76.3	80.2	83.7	86.3	84.3	90.5	92.2	87.8	83.1	80.8						121.9
629. FT/SEC	20000	92.2	75.9	79.7	83.1	85.9	87.3	89.9	91.8	89.8	83.2	81.1						122.8
	25000	94.4	94.7	98.3	81.6	84.5	86.1	88.4	90.6	87.4	82.3	80.4						121.4
	31500	93.6	93.5	97.2	81.1	83.5	85.7	87.8	89.4	86.5	81.4	79.3						121.3
	40000	94.2	91.8	94.7	78.5	83.5	83.2	85.6	86.8	84.2	79.1	78.3						120.1
	50000	96.4	88.5	92.8	74.5	76.8	79.9	82.7	81.9	86.1	77.1	77.7						118.7
	63000	98.6	86.7	93.7	89.4	91.5	94.3	96.6	95.4	94.6	94.5	91.7						118.9
	80000	91.2	89.1	91.0	89.4	89.3	90.5	91.7	91.4	90.2	92.9	89.2						120.4
OVERALL MEASURED																		
OVERALL CALCULATED		94.4	94.6	97.2	100.5	102.4	104.0	104.9	106.2	103.7	99.7	97.6						130.7
	PWL	105.5	107.9	110.5	113.7	115.3	116.9	117.6	118.9	116.7	112.7	109.4						

ORIGINAL PAGE IS
OF POOR QUALITY

RAKE SURVEY PRESSURE LEVELS (50, 60, 70, 80 PERCENT REL. NUM. RAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

		50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.
	FREQ.	(.87)	(1.05)	(1.36)	(1.53)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.60)	(2.78)	(0.	110.	110.	110.	110.	110.)
	SC																	
	63																	
STABILITY 2.3 PT.	60																	
(63.06 PSI)	100	53.7	52.1	51.2	51.1	51.1	51.7	51.2	50.4	51.0	54.8	54.2						
VEHICLE RPCS	125	55.4	57.3	56.4	54.9	54.3	55.2	54.2	55.1	54.9	54.9	53.5						
CONFIG 26	150	54.3	53.9	51.5	52.7	53.3	53.1	54.4	54.9	54.1	54.2	53.7						
LOC SCHENECTADY	200	54.2	49.1	50.9	53.1	54.8	55.7	55.7	56.8	56.5	57.1	54.2						
DATE 11/15/74	250	51.6	53.8	55.1	54.5	57.3	57.4	57.9	57.5	56.9	56.4	53.2						
RUN 18/3	315	59.2	54.2	54.0	54.9	57.9	57.8	57.5	57.1	56.5	56.8	52.2						
TAPE	400	53.4	53.3	54.2	54.9	55.7	54.3	56.4	56.9	55.1	54.3	50.2						
BAR 29.7 HG	500	47.3	51.2	52.8	54.3	55.1	54.2	54.3	56.4	54.6	53.9	48.9						
(100295. N/M2)	630	52.0	52.8	54.2	56.4	57.5	58.6	58.7	58.8	57.8	54.2	48.4						
TAMB 42. DEG F	800	50.1	53.5	55.5	56.8	58.1	59.5	59.8	59.4	57.3	53.7	47.8						
(279. DEG K)	1000	49.9	53.4	56.2	57.2	58.2	59.6	60.2	60.5	58.2	52.7	46.2						
TRCT 39. DEG F	1250	47.1	54.3	57.1	54.6	60.9	62.0	63.3	62.5	60.2	53.4	44.5						
(277. DEG K)	1600	54.4	57.6	60.7	63.9	65.8	67.1	66.8	67.1	64.2	59.0	47.5						
MACH 5.42 GM/M3	2000	54.4	56.2	62.2	65.3	67.5	69.6	68.6	68.1	64.2	57.3	47.7						
(.00542 KG/M3)	2500	55.5	56.5	62.9	66.7	69.4	68.7	68.1	68.1	63.7	55.9	48.4						
NFA 7184. RPM	3150	51.5	60.9	64.3	68.4	69.7	70.2	70.3	70.7	66.2	57.9	48.8						
(744. RAD/SEC)	4000	53.3	60.9	64.5	68.5	70.9	71.2	71.8	70.8	66.8	57.5	47.3						
NFC 7233. RPM	5000	55.8	61.4	63.7	67.7	69.5	70.6	70.2	69.7	64.3	55.5	44.5						
(750. RAD/SEC)	6300	57.7	57.2	60.9	65.2	66.9	68.1	67.6	66.1	61.8	53.8	41.5						
NFB 8823. RPM	8000	50.5	55.2	58.6	62.6	64.5	65.9	65.9	65.4	59.5	50.3	37.1						
(924. RAD/SEC)	10000	44.8	52.4	57.1	60.9	63.8	64.4	64.2	63.5	57.7	47.5	33.8						
NO. OF BLADES 19	12500	40.6	48.7	53.4	57.5	60.4	60.5	60.8	56.7	52.5	42.0	28.5						
FAN TIP SPEED	16000	37.8	41.3	46.6	50.5	53.3	54.1	54.5	53.3	44.5	32.8	18.9						
820. FT/SEC	20000	38.4	35.9	41.2	45.2	47.8	48.9	48.5	46.8	38.3	22.5	8.7						
	25000	31.3	27.4	32.9	36.9	39.5	38.7	39.7	36.8	28.1	7.9							
	31500	11.2	15.5	21.7	26.5	29.5	28.9	27.3	22.6	9.7								
	40000			4.6	9.1	10.6	10.8	8.2	8.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		68.3	68.3	72.8	76.2	77.9	78.3	78.6	78.6	74.3	68.4	63.2						
MEAS		70.9	63.4	66.5	90.8	81.5	92.7	92.5	92.4	88.2	81.1	72.8						

PAGE 1 FULL SCALE DATA [illegible] Punch DATE = NOVEMBER 19 1974 5 HR. 15.2

[illegible] SCALE [illegible] [illegible] [illegible]

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PAGE, DATE = MONTH 12 DAY 5 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	FREQ.																	
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	56.4	51.5	53.6	53.5	54.1	54.5	54.5	54.1	55.1	59.3	57.7						
VEHICLE S-55	125	56.3	55.7	54.8	55.9	56.3	56.6	56.6	56.8	58.0	58.4	57.2						
CONFIG 20	160	56.7	54.9	55.7	56.1	56.5	57.3	58.1	58.7	58.8	59.2	57.5						
LOC SCHENECTADY	200	57.4	53.8	54.9	56.5	58.4	60.0	59.7	60.8	59.7	60.6	58.2						
DATE 11/15/74	250	57.0	57.2	59.5	60.4	61.3	61.4	61.9	61.7	60.6	60.4	57.5						
RUN 18/4	315	55.9	57.1	59.2	60.1	60.5	60.8	60.5	60.6	60.0	60.2	56.0						
TAPE	400	55.9	55.8	57.4	58.3	59.9	59.7	59.9	60.2	58.6	57.8	54.5						
BAR 29.7 IN	500	55.8	54.9	56.3	57.5	58.5	59.6	60.3	59.9	58.2	56.9	52.9						
(100595. N/M2)	630	57.2	56.1	58.2	59.6	61.2	62.3	62.4	62.2	60.3	57.4	52.1						
TAMB 42. DEG F	800	63.5	58.4	61.6	61.0	62.6	62.7	63.3	62.3	59.8	56.7	51.8						
(279. DEG K)	1000	56.9	56.5	58.9	60.1	61.2	62.3	62.9	62.7	60.2	55.7	49.7						
TAET 39. DEG F	1250	55.3	57.6	59.3	61.7	62.9	64.2	64.8	65.0	61.7	55.9	50.0						
(277. DEG K)	1600	58.1	59.5	61.6	63.9	65.0	66.0	66.6	65.5	62.7	55.8	48.3						
MACT 5.42 GM/M3	2000	61.4	66.8	70.7	72.3	74.1	75.0	74.6	72.8	69.9	61.5	52.0						
(.005542 KG/M3)	2500	56.6	62.9	66.5	70.1	71.2	71.4	70.9	70.3	64.9	56.4	49.7						
NFA 7892. RPM	3150	54.3	63.4	67.2	70.6	71.4	71.9	71.0	71.6	66.5	58.6	50.1						
(826. RAD/SEC)	4000	54.0	65.4	68.7	72.2	73.0	74.1	74.2	73.0	68.3	60.5	50.5						
NFK 6023. RPM	5000	53.6	63.1	67.4	72.2	73.9	72.8	72.2	71.1	64.8	57.2	46.5						
(840. RAD/SEC)	6300	52.6	62.1	65.6	70.4	71.6	71.4	70.5	69.3	63.8	56.2	45.0						
NFD 8823. RPM	8000	51.5	59.4	63.6	66.0	67.7	69.1	68.7	68.9	61.0	52.5	41.4						
(924. RAD/SEC)	10000	51.5	57.1	61.5	64.8	66.2	67.6	67.2	66.4	59.0	50.3	38.0						
NO. OF BLADES 15	12500	49.6	53.9	58.9	61.0	63.4	64.4	64.3	63.4	54.8	46.5	30.2						
FAN TIP SPEED	16000	43.5	46.4	51.6	54.5	56.7	57.6	57.8	56.5	46.5	34.3	19.1						
869. FT/SEC	20000	38.3	40.9	46.1	49.6	51.8	52.5	52.8	50.2	40.3	25.5	7.0						
	25000	32.0	32.9	37.9	42.4	43.8	44.2	44.4	41.5	29.6	11.9							
	31500	20.2	21.4	26.9	31.0	32.5	33.0	31.3	28.4	13.0								
	40000	3.3	3.4	10.0	13.8	15.1	14.5	12.2	4.0									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		70.7	73.7	77.1	80.8	81.1	82.1	81.7	80.9	76.5	72.5	66.9						
PNLB		81.9	87.4	90.6	93.6	94.6	95.6	95.5	94.7	90.2	86.3	79.8						

PAGE 1 FULL SCALE DATA FOR CONFIG PRO.(AP PROG. DATE = MONTH 12 DAY 5 HR. 15.3

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. EAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5θ. (1.05)	6θ. (1.26)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.04)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 12. FT.	80																		
(5. M)	100	79.4	74.5	75.6	75.3	76.0	77.0	77.2	77.6	80.4	85.7	88.8							114.0
VEHICLE CROSS	125	79.6	77.5	77.1	78.1	79.3	80.5	80.9	82.4	83.4	85.7	88.6							115.6
CONFIG 2C	160	79.9	77.3	77.4	77.6	78.0	79.3	80.7	82.4	84.4	87.2	88.6							115.8
LOC SCHROEDTAL	200	81.7	76.0	77.6	77.9	80.3	81.7	81.9	84.4	85.7	89.7	90.3							117.3
DATE 11/15/74	250	79.4	79.8	81.9	82.5	83.0	84.0	85.7	86.4	86.4	88.4	90.1							119.7
RUN 18/5	315	79.6	83.2	81.1	81.4	82.5	83.5	83.4	84.9	85.7	87.4	88.3							117.8
TAPE	400	79.5	78.8	79.9	80.3	81.0	82.0	83.2	84.4	84.7	86.4	86.8							116.6
GAP 29.7 MS	500	79.5	78.3	78.4	79.4	80.5	82.0	83.2	83.9	84.7	85.4	85.3							116.1
(0029S. M/M2)	630	81.8	79.5	80.4	81.6	82.8	84.3	85.7	86.9	86.2	86.9	85.6							118.0
TAMB 42. DEG F	800	80.8	81.5	83.9	83.6	84.8	85.3	86.9	87.4	86.4	85.7	84.6							120.0
(279. DEG K)	1000	81.8	79.5	81.6	82.5	83.8	85.0	86.9	87.6	86.7	84.4	83.3							118.5
THET 39. DEG F	1250	79.9	81.3	82.1	83.9	85.8	87.3	88.6	89.9	88.7	85.7	83.8							120.2
(277. DEG K)	1600	79.6	82.1	84.1	86.9	87.9	89.8	90.9	90.9	89.6	85.5	82.6							121.6
MACT 5.42 GM/M3	2000	36.1	89.6	92.4	95.2	95.9	96.6	98.1	98.4	96.7	92.0	88.6							129.6
(.00542 KG/M3)	2500	79.5	85.9	88.6	92.9	94.4	95.1	94.9	96.3	92.7	88.5	84.8							126.8
NFA 7890. RPM	3150	79.5	87.1	90.3	93.3	95.2	95.6	95.8	98.1	94.4	89.8	86.1							127.9
(826. RAD/SEC)	4000	79.7	89.6	92.3	94.9	96.9	96.3	99.3	99.7	96.6	92.7	88.5							130.3
NFK 8023. RPM	5000	79.6	92.3	91.2	93.7	96.1	97.0	98.0	98.7	93.3	89.2	84.7							128.9
(840. RAD/SEC)	6300	79.5	87.1	90.2	93.6	97.3	98.5	98.2	98.5	93.8	89.9	85.8							129.8
NFD 8823. RPM	8000	79.6	85.3	88.9	91.6	93.9	95.4	96.2	98.2	92.7	88.3	83.9							127.6
(924. RAD/SEC)	10000	81.4	85.3	89.3	91.7	93.7	95.0	96.8	97.7	93.3	88.9	84.1							127.7
NO. OF BLADES 18	12500	82.6	84.5	88.3	90.5	93.6	94.1	95.9	97.1	92.0	88.0	83.1							127.2
FAN TIP SPEED	16000	80.4	80.5	84.4	86.9	89.4	91.5	93.7	94.9	90.3	85.1	80.6							125.9
689. FT/SEC	20000	80.8	80.6	84.4	86.8	89.4	91.5	94.2	95.0	91.0	85.2	80.3							125.5
	25000	82.3	79.7	82.8	86.1	88.5	90.8	93.3	94.8	90.4	85.3	80.2							125.6
	31500	82.3	79.0	82.2	85.1	87.5	90.5	91.6	93.3	89.5	84.1	78.1							125.3
	40000	82.3	77.2	80.2	82.7	85.0	87.2	89.6	89.9	86.5	81.4	75.3							124.6
	50000	85.3	75.8	79.0	79.6	81.8	84.4	87.0	85.9	83.1	78.6	71.7							123.5
	63000	87.5	75.2	78.9	76.9	78.7	80.2	82.4	80.4	77.0	73.2	70.7							123.8
	80000	91.1	77.8	81.0	78.3	79.0	80.2	80.4	80.1	74.7	71.9	71.2							129.6
OVERALL MEASURED																			
OVERALL CALCULATED		98.2	99.2	101.0	103.9	105.7	106.9	108.0	108.9	105.4	102.1	100.3							140.1
	PNLT	106.9	111.5	114.0	117.0	118.4	119.6	120.5	121.2	118.4	115.2	112.2							

PROC. DATE = MONTH 12 DAY 5 HR. 15.3

MODEL SCALED PRESSURE LEVELS (59. DEG, 70 PERCENT REL. HUM. DRY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.89)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	56.4	57.3	53.9	53.5	54.4	55.0	54.5	53.9	55.1	56.0	57.4						
125	55.3	55.2	55.3	56.4	57.3	57.4	58.1	58.5	58.6	57.9	57.0						
160	56.7	54.7	53.7	56.9	58.2	58.9	57.8	56.4	58.8	59.2	58.7						
200	59.4	57.5	55.6	56.0	58.4	59.5	59.0	60.3	60.0	60.6	58.2						
250	56.3	57.2	59.8	60.7	61.9	61.6	62.5	62.2	60.8	60.1	57.7						
315	55.9	57.4	59.0	59.9	60.5	61.2	60.3	60.6	59.7	59.0	55.7						
400	58.9	58.6	57.6	58.3	58.9	59.5	59.9	60.0	58.6	57.9	54.0						
500	55.8	55.4	56.0	57.2	58.3	59.4	59.8	59.4	59.4	56.6	52.2						
630	57.2	56.6	57.9	59.4	60.5	62.4	62.2	62.2	59.8	56.9	52.1						
800	56.0	58.4	61.3	61.3	62.4	62.4	63.3	62.6	59.8	56.4	52.8						
1000	55.9	58.3	59.9	60.1	61.2	62.1	63.2	62.7	59.9	54.9	49.2						
1250	55.3	57.9	59.3	61.3	63.1	64.2	64.8	64.7	61.7	55.9	49.3						
1600	55.1	58.9	61.1	62.2	63.0	64.5	66.0	65.5	62.7	55.4	47.5						
2000	51.4	56.1	59.2	72.3	72.9	75.1	73.8	72.8	69.2	61.5	51.0						
2500	54.6	62.9	65.2	69.6	71.2	71.4	70.4	70.5	64.9	57.7	48.7						
3150	54.3	62.9	66.7	70.1	71.7	71.6	71.0	71.9	66.2	58.4	49.1						
4000	54.0	64.9	68.2	72.2	73.0	73.9	74.0	73.0	67.9	60.5	50.3						
5000	53.4	62.3	66.3	69.7	71.9	72.3	72.4	71.6	64.1	57.0	45.8						
6300	52.6	61.4	65.1	68.5	72.1	71.1	71.9	70.5	63.5	55.7	44.7						
8000	51.3	58.4	62.8	65.4	67.9	68.9	68.7	68.9	60.7	52.0	39.6						
10000	51.5	56.3	61.3	64.3	65.2	66.9	67.5	66.4	59.0	49.5	35.3						
12500	50.1	53.6	59.4	60.9	63.9	63.7	64.0	62.9	54.3	44.2	27.7						
16000	43.3	45.7	50.6	53.7	56.5	56.1	57.8	56.0	47.0	34.0	14.6						
20000	38.7	40.6	45.9	48.9	51.3	52.2	52.8	50.0	40.3	24.5							
25000	31.8	32.4	37.4	41.4	43.5	44.4	44.2	41.0	29.1	10.9							
31500	19.9	20.9	26.6	30.5	32.5	33.0	31.9	26.6	12.7								
40000	2.8	3.2	9.5	13.3	15.1	14.7	12.2	4.0									
50000																	
63000																	
80000																	
OVERALL CALCULATED	76.9	73.3	76.4	79.5	81.3	81.6	81.5	81.0	76.1	71.2	66.6						
PNDB	81.9	87.0	90.1	93.4	94.6	95.4	95.4	94.7	89.9	83.8	79.2						

PAGE 1 FULL SCALE DATA REDUC[illegible] PROGRAM PNOC, DATE = MONTH 12 DAY 5 HR. 15.4

MODEL SOUND PRESSURE LEVELS (50, LEG, F, 70 PERCENT OBL, NUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.2	72.5	76.9	77.9	77.3	76.0	73.2	69.9	71.7	76.4	78.4							109.4
VEHICLE 2856	125	73.2	68.5	70.9	69.9	70.5	69.0	68.7	71.2	72.2	73.9	76.6							105.1
CONFIG 20	160	71.7	66.5	67.4	67.6	67.8	68.0	69.9	71.2	72.6	75.1	76.9							104.8
LOC SCREENHOUSE	200	72.3	66.3	67.2	71.9	70.2	71.4	72.9	74.7	75.1	77.1	78.6							108.9
DATE 11/15/74	250	72.2	69.1	70.2	71.4	71.8	72.5	73.7	74.2	74.6	75.6	76.9							108.9
RUN 1845	315	72.6	70.1	71.7	71.7	72.5	73.5	72.9	74.4	74.8	76.1	76.8							107.9
TAPE	400	74.3	69.3	70.7	71.4	72.0	73.3	73.7	74.9	75.4	74.6	74.9							107.2
BAR 28.7 IN	500	73.5	68.5	69.4	70.4	71.5	72.5	73.4	74.2	73.6	74.4	74.4							106.5
(97295. N/M2)	630	71.3	70.1	70.9	72.2	74.6	75.0	76.7	77.7	77.7	76.9	75.4							109.0
TAMB 42. DEG F	800	69.1	72.3	74.2	74.8	76.1	77.1	78.4	79.2	78.9	77.4	74.6							111.1
(279. DEG K)	1000	71.5	71.3	73.7	74.4	76.6	77.6	78.9	80.2	80.9	77.5	73.9							111.0
TSET 39. DEG F	1250	70.3	76.1	77.4	79.2	81.4	83.1	85.7	86.2	87.9	84.9	79.9							117.0
(277. DEG K)	1600	69.6	75.9	77.9	79.5	81.4	83.4	84.9	85.9	86.9	82.7	77.1							116.5
HACT 5.42 GM/M3	2000	75.6	75.7	77.9	81.0	83.7	85.9	85.6	85.4	84.7	80.4	77.1							118.9
(.00542 KG/M3)	2500	71.4	79.2	82.2	84.8	86.7	88.9	89.4	89.4	89.9	83.9	80.6							120.8
NFA 5527. RPM	3150	70.1	78.7	81.6	84.5	86.9	88.1	88.8	89.3	90.7	83.9	80.6							120.5
(579. RAD/SEC)	4000	69.5	78.1	80.6	84.3	87.1	88.1	89.0	91.3	90.1	83.9	79.3							120.9
NFK 5620. RPM	5000	69.5	78.6	79.3	83.3	85.5	86.5	87.7	89.0	88.8	82.4	78.0							119.3
(588. RAD/SEC)	6300	69.5	74.3	78.0	82.2	84.0	85.3	86.2	88.8	88.1	81.1	77.6							118.4
NFE 6823. RPM	8000	69.7	73.6	78.5	79.9	82.2	83.9	85.0	86.7	86.9	80.5	76.4							116.9
(924. RAD/SEC)	10000	70.7	72.1	75.8	80.3	81.7	84.0	85.0	86.7	87.3	80.0	76.9							117.1
NO. OF BLADES 15	12500	71.9	72.1	73.8	78.0	80.9	83.4	83.6	86.3	85.8	79.9	78.1							116.3
FAN TIP SPEED	16000	70.4	68.0	70.7	74.7	77.5	79.8	82.5	84.7	83.3	76.8	76.8							114.4
483. FT/SEC	20000	71.4	67.1	70.2	74.3	76.4	79.0	82.4	83.8	83.5	77.1	80.1							114.6
	25000	72.9	66.7	68.8	72.6	75.3	77.4	79.1	81.1	81.2	74.7	79.5							113.0
	31500	72.4	65.8	66.2	72.1	74.8	76.7	78.6	80.6	80.5	75.3	79.9							113.5
	40000	73.2	64.5	67.2	69.2	71.8	74.7	76.4	78.0	77.7	74.6	82.1							113.3
	50000	74.4	65.3	68.0	67.9	69.5	71.2	74.0	73.6	72.8	75.3	82.0							113.7
	63000	78.6	66.3	69.2	66.9	68.5	69.5	70.9	69.6	67.9	78.4	81.8							115.8
	80000	81.2	68.3	71.0	68.4	69.0	70.3	70.7	70.2	65.2	72.1	77.8							120.4
OVERALL MEASURED																			
OVERALL CALCULATED		88.2	87.2	90.4	90.3	95.4	97.0	98.0	99.3	99.4	94.2	93.3							130.6
	PNDB	97.4	101.2	103.8	106.7	108.8	110.0	110.9	112.4	112.3	107.0	104.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 5 HR. 15.4

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	FREQ.	50. (1.02)	60. (1.17)	70. (1.30)	80. (1.53)	90. (1.71)	100. (1.90)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. 0. 0. 0. 0. 0. 0. (0.) (0.) (0.) (0.) (0.) (0.)
	50												
	63												
SIDELINE 200. FT.	80												
(60.96 M)	100	53.2	53.3	55.2	56.3	55.6	54.0	50.5	48.1	46.3	44.7	47.0	
VEHICLE R=55	125	47.1	46.3	49.1	48.2	49.1	46.9	45.9	47.3	46.7	46.1	45.0	
CONFIG 20	160	48.5	44.2	45.5	45.9	46.9	46.6	47.1	47.2	47.3	47.2	45.0	
LOC SCHEIDEGGTAL	200	49.2	44.3	45.9	47.1	48.1	49.5	50.0	50.6	49.4	49.0	46.5	
DATE 11/15/74	250	48.8	46.5	48.1	49.5	49.8	50.2	50.5	50.0	49.1	47.3	44.5	
RUN 1806	315	53.5	47.4	49.5	49.9	50.5	51.1	49.8	50.1	48.7	47.7	44.0	
TAPE	400	53.7	48.6	49.4	49.3	49.9	50.4	50.4	50.5	49.3	48.0	42.0	
BAR 29.7 IN	500	49.8	45.7	47.1	48.3	49.3	49.9	50.1	49.7	47.4	45.6	41.2	
(100295. N/M2)	630	47.5	47.1	48.5	50.0	52.2	52.4	53.2	53.0	51.3	47.9	41.9	
TAMB 42. DEG F	800	56.1	49.2	51.6	52.1	53.6	54.2	54.8	54.4	52.3	49.1	40.8	
(279. DEG K)	1000	47.5	49.1	51.0	51.9	54.0	54.0	55.2	55.2	54.1	48.1	39.7	
THET 39. DEG F	1250	46.6	52.7	54.6	56.8	58.7	60.0	61.8	61.9	60.9	55.1	45.3	
(277. DEG K)	1600	48.1	52.3	54.9	56.7	58.5	60.1	60.8	60.6	59.7	52.8	42.1	
HACT 5.42 GM/M3	2000	50.9	51.9	54.7	56.1	60.6	62.4	61.4	59.8	57.2	49.9	41.5	
(.00542 KG/M3)	2500	46.5	55.2	58.8	61.7	63.4	65.2	64.9	63.6	62.1	53.1	44.5	
NFA 5527. RPM	3150	44.9	54.4	58.0	61.4	63.4	64.2	64.0	63.2	62.5	52.5	43.6	
(579. RAD/SEC)	4000	43.3	53.4	56.5	61.5	63.2	63.7	63.7	64.6	61.2	51.7	41.1	
NFK 5420. RPM	5000	43.5	51.6	54.9	59.2	61.5	61.9	62.2	61.9	59.6	49.6	39.1	
(568. RAD/SEC)	6300	42.7	49.2	52.9	57.4	59.1	59.9	59.9	60.6	57.7	46.9	37.5	
NFD 8823. RPM	8000	41.5	46.7	50.3	54.1	56.2	57.4	57.4	57.4	54.9	44.2	32.2	
(924. RAD/SEC)	10000	40.8	43.6	48.1	52.6	54.3	55.9	55.7	55.5	53.0	40.7	28.1	
NO. OF BLADES 15	12500	39.4	40.3	43.9	48.5	51.2	53.0	51.8	52.2	48.0	35.1	22.8	
FAN TIP SPEED	16000	33.6	33.3	37.1	41.5	44.5	45.6	46.5	45.8	39.9	25.7	10.7	
483. FT/SEC	20000	28.9	27.2	31.7	36.4	38.3	39.8	41.0	38.8	32.7	16.4		
	25000	22.3	19.4	23.4	27.9	30.3	31.0	30.9	27.3	19.8	0.3		
	31500	10.0	7.8	12.7	17.5	19.8	19.9	18.0	13.9	3.7			
	40000					1.8	2.3						
	50000												
	63000												
	80000												
OVERALL CALCULATED		62.3	63.5	66.6	69.5	71.4	72.4	72.4	72.0	70.3	62.9	56.3	
PNLB		72.3	76.8	80.0	83.2	85.1	85.9	85.9	85.9	84.0	79.5	67.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 YR. 74

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.0	73.1	76.9	77.6	77.3	76.0	72.9	68.2	83.2	76.9	78.1							110.9
125	68.0	67.8	71.4	68.9	71.5	68.8	68.9	70.7	83.2	74.2	75.8							108.3
160	65.8	66.6	66.9	67.1	68.8	67.8	69.7	71.2	81.6	76.2	76.3							107.3
200	66.3	66.1	66.7	67.4	70.3	71.0	72.4	73.9	83.4	77.4	78.3							108.9
250	65.8	68.8	70.2	70.6	72.5	72.3	73.4	73.4	84.9	78.4	78.8							110.0
315	68.8	69.1	70.7	71.4	72.5	73.0	73.4	73.7	85.7	78.4	78.3							110.5
400	68.3	68.8	69.7	70.4	72.8	72.5	73.2	73.9	85.9	75.4	74.3							110.5
500	67.6	68.3	68.7	69.9	71.8	72.0	73.7	74.2	84.9	76.4	73.1							109.8
630	68.9	69.8	70.7	72.4	74.3	75.3	76.2	76.9	86.2	81.7	74.8							111.9
800	71.4	71.8	72.4	73.7	75.1	76.1	77.9	79.2	86.7	81.9	75.1							112.8
1000	69.4	70.6	72.9	73.9	75.8	77.1	78.7	79.9	87.2	78.4	73.3							112.9
1250	73.4	75.4	76.7	78.5	81.4	82.6	84.7	85.7	89.7	84.5	78.8							117.2
1600	73.1	75.6	77.7	79.8	81.6	82.6	84.7	85.9	90.7	82.8	76.6							117.6
2000	74.7	76.9	78.4	80.6	82.9	84.6	85.4	86.7	90.2	89.5	77.3							118.5
2500	76.1	78.9	81.2	84.3	86.4	87.1	89.1	90.1	93.0	84.8	81.1							121.1
3150	75.1	78.7	80.9	83.9	86.7	87.6	88.6	89.4	94.6	85.0	81.6							121.5
4000	73.8	78.1	80.8	84.1	86.9	87.8	89.0	90.8	94.6	84.0	81.0							121.9
5000	72.8	77.1	80.3	82.8	85.4	86.8	87.7	89.8	93.1	82.9	81.0							120.5
6300	71.4	75.4	78.2	81.7	83.8	85.0	86.5	88.3	93.6	81.7	83.3							120.1
8000	69.2	73.6	76.3	79.9	82.2	84.0	85.3	86.6	93.5	80.1	85.2							119.5
10000	69.5	72.5	75.3	79.3	81.5	83.1	84.6	86.3	95.6	80.9	86.6							120.7
12500	68.8	70.9	73.4	78.3	80.5	83.5	84.2	86.4	94.1	79.3	88.9							120.1
16000	65.3	68.2	70.6	74.3	77.9	79.2	82.3	84.3	93.0	78.7	90.1							119.1
20000	65.6	67.3	70.3	74.0	76.1	78.1	81.3	84.4	92.9	76.6	90.5							118.9
25000	66.1	66.9	68.5	72.5	75.0	76.5	79.5	80.6	91.4	74.7	87.6							118.1
31500	65.8	65.7	68.2	72.3	74.4	76.7	78.2	80.3	89.7	75.0	86.5							117.2
40000	66.2	64.8	66.5	69.5	72.0	74.0	76.4	77.7	88.0	73.1	82.0							116.9
50000	69.0	65.9	67.8	67.4	69.3	71.0	74.0	73.2	90.6	72.9	82.0							120.4
63000	70.7	66.1	69.2	67.0	68.8	68.9	70.9	69.2	91.3	73.0	79.0							123.4
80000	73.1	68.7	71.4	68.7	69.9	70.6	71.0	70.5	92.8	74.8	74.8							126.8
OVERALL MEASURED																		
OVERALL CALCULATED	85.6	87.9	90.2	92.9	95.2	96.4	97.8	99.1	105.8	95.8	98.1							134.2
PNDB	98.2	101.2	103.3	106.1	108.6	109.5	110.8	112.1	117.3	108.9	105.8							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 8.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 21
LOC SCHENECTADY
DATE 11/14/74
RUN 17/4
TAPE
BAR 29.7 HG (100528. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 42. DEG F (279. DEG K)
HACT 5.27 GM/M3 (.00527 KG/M3)
NFA 5567. RPM (583. RAD/SEC)
NFK 5627. RPM (589. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 486. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)
FREQ.												
50												
63												
80												
100	46.0	50.8	55.2	56.1	55.6	54.0	50.2	44.4	5[illegible].8	49.3	46.7	
125	44.9	45.5	49.6	47.2	49.8	46.7	46.2	46.8	5[illegible].7	46.4	44.2	
160	42.6	44.2	45.0	45.4	47.0	45.6	46.8	47.2	5[illegible].3	48.2	44.5	
200	43.0	43.6	44.7	45.6	48.4	48.7	49.5	49.8	5[illegible].7	49.3	46.2	
250	45.4	46.2	48.1	48.7	50.6	49.9	50.4	49.2	5[illegible].1	48.1	44.8	
315	45.3	46.4	48.5	49.4	50.5	50.6	50.3	49.4	5[illegible].7	48.0	43.7	
400	44.7	46.1	47.4	48.3	50.7	50.0	49.9	49.5	5[illegible].8	48.8	41.5	
500	43.9	45.5	46.3	47.8	49.6	49.4	50.3	49.7	5[illegible].7	47.6	39.9	
630	45.0	46.6	48.2	50.2	52.0	52.6	52.7	52.3	5[illegible].4	52.7	41.4	
800	47.4	48.7	49.9	51.3	52.6	53.2	54.3	54.4	6[illegible].1	52.7	41.3	
1000	45.2	47.4	50.2	51.4	53.2	54.1	54.9	55.0	6[illegible].4	48.9	39.2	
1250	49.1	52.0	53.8	55.9	58.7	59.7	60.8	60.5	6[illegible].7	54.7	44.3	
1600	48.7	52.1	54.7	57.3	58.8	59.3	60.6	60.6	6[illegible].5	52.6	41.5	
2000	50.3	53.2	55.2	57.6	59.9	61.1	61.1	59.1	6[illegible].7	56.0	41.7	
2500	51.2	55.0	57.8	61.2	63.2	63.5	64.6	64.3	6[illegible].2	53.9	44.9	
3150	49.9	54.4	57.2	60.4	63.2	63.7	63.8	63.2	6[illegible].2	53.6	44.6	
4000	49.1	53.5	56.8	60.3	63.0	63.4	63.8	64.1	6[illegible].8	51.7	42.8	
5000	46.8	52.2	55.7	58.8	61.2	62.1	62.2	62.0	6[illegible].9	50.2	42.0	
6300	44.5	49.7	53.2	56.9	58.9	59.7	60.1	60.4	6[illegible].3	47.5	42.3	
8000	41.1	46.7	50.1	54.1	56.2	57.4	57.7	57.2	6[illegible].5	43.8	40.9	
10000	39.6	44.0	47.6	51.9	54.1	55.0	55.3	55.0	6[illegible].3	41.6	37.9	
12500	36.2	40.0	43.5	48.8	50.8	53.1	52.4	52.3	5[illegible].3	35.5	33.5	
16000	28.5	33.4	37.0	41.1	44.6	45.0	46.4	45.4	4[illegible].6	25.8	24.0	
20000	23.1	27.4	31.8	36.1	37.9	38.9	39.9	39.4	4[illegible].1	15.9	16.1	
25000	15.6	19.6	23.1	27.9	30.0	30.2	30.4	26.8	3[illegible].0	0.3		
31500	3.4	7.7	12.6	17.7	19.4	19.8	17.7	13.6	11.9			
40000				0.1	2.1	1.5						
50000												
63000												
80000												
OVERALL CALCULATED	60.0	63.5	66.3	69.0	71.2	71.8	72.2	71.9	7[illegible].3	64.9	56.5	
PNDB	72.9	76.8	79.6	82.5	84.9	85.4	85.7	85.6	8[illegible].9	77.8	68.2	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 8.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.3	74.3	70.7	70.6	74.3	72.5	73.4	72.9	74.2	77.7	81.6							108.5
125	69.8	70.6	72.7	71.6	74.3	72.0	72.2	73.9	76.2	77.7	80.6							108.1
160	69.0	69.5	69.7	70.1	73.5	70.8	73.4	74.9	77.4	79.4	80.8							108.3
200	69.5	68.8	69.7	71.1	74.9	75.3	75.4	77.9	78.4	81.2	82.1							110.9
250	71.3	71.6	73.2	74.4	75.9	75.3	76.9	77.2	78.4	80.7	81.1							110.3
315	72.8	73.6	74.2	75.4	77.5	76.0	76.7	77.2	78.9	80.4	80.6							110.8
400	71.6	72.1	72.7	73.4	78.3	75.5	76.2	77.4	78.4	78.9	78.8							110.1
500	70.1	70.8	71.4	72.9	80.1	74.5	76.9	78.4	77.9	78.2	78.3							110.1
630	71.6	72.6	73.7	75.2	79.3	78.1	78.7	79.9	81.7	80.2	78.6							112.0
800	73.4	73.1	74.7	75.7	82.1	78.1	80.4	80.9	82.2	80.2	79.1							113.1
1000	71.9	73.3	74.9	76.4	80.3	79.8	81.2	82.4	82.7	79.7	77.6							113.3
1250	73.4	75.6	77.4	78.7	81.1	82.8	84.2	85.4	85.7	81.7	79.1							115.9
1600	81.6	84.4	89.7	87.0	87.6	90.4	89.9	92.4	94.2	86.5	83.3							123.4
2000	77.2	80.4	81.9	84.1	86.2	87.9	88.4	88.7	86.0	82.8	80.6							119.8
2500	77.1	80.4	82.7	86.6	88.7	89.8	89.6	90.1	89.7	84.3	81.3							121.4
3150	78.9	82.9	85.4	89.1	90.9	92.1	93.4	94.6	94.7	89.3	85.8							125.8
4000	77.1	81.6	84.3	87.1	89.4	90.8	92.0	92.3	92.4	85.7	83.0							123.2
5000	77.0	81.6	84.3	87.3	90.1	91.3	92.5	93.2	91.8	85.7	83.7							123.6
6300	74.9	79.4	82.0	85.7	87.8	89.5	90.5	91.5	91.1	84.7	85.8							122.0
8000	73.2	77.9	81.3	84.2	86.7	88.2	89.5	90.8	89.8	83.4	86.4							121.8
10000	72.5	76.7	80.3	84.3	86.5	88.1	89.3	91.3	89.9	83.9	87.8							121.3
12500	71.8	75.4	78.7	82.8	85.5	86.5	88.5	89.7	88.1	82.1	89.8							120.4
16000	68.3	72.7	75.6	78.8	82.4	84.5	85.8	87.8	85.5	79.5	91.6							119.0
20000	67.6	71.0	74.6	78.2	81.1	82.9	86.1	87.4	85.9	79.6	93.2							119.6
25000	67.9	70.2	73.3	77.0	79.5	81.3	83.8	85.6	84.4	77.5	92.6							118.8
31500	67.3	69.5	72.7	76.5	78.7	81.2	83.0	84.3	83.5	77.3	91.2							118.7
40000	67.7	67.3	70.2	73.7	76.0	78.7	80.9	81.7	81.5	75.4	90.0							118.2
50000	69.5	66.6	69.6	70.4	72.8	75.2	77.8	77.5	78.1	73.2	88.0							117.4
63000	71.0	66.8	70.0	67.7	70.1	71.1	73.2	71.2	76.3	71.5	88.5							119.1
80000	73.3	68.7	71.4	68.7	69.9	70.6	71.5	70.5	74.8	71.8	83.6							120.3
OVERALL MEASURED																		
OVERALL CALCULATED	88.9	91.8	94.8	96.8	99.1	100.4	101.5	102.6	102.3	96.9	101.5							134.1
PNDB	101.7	105.0	107.5	110.3	112.5	113.5	114.5	115.6	115.6	110.8	109.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 NO. 0.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 21
LOC SCHENECTADY
DATE 11/14/74
RUN 17/5
TAPE
BAR 29.7 MG (00226. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 42. DEG F (279. DEG K)
HACT 5.27 GM/M3 (.00527 KG/M3)
NFA 6355. RPM (665. RAD/SEC)
NFK 6423. RPM (673. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 955. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	66. (1.19)	76. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.0	52.1	48.9	49.1	52.6	50.5	50.7	49.1	48.4	50.0	50.2						
125	46.6	48.3	50.8	50.0	52.6	49.9	49.4	50.1	50.7	49.9	49.0						
160	45.8	47.4	47.8	48.4	51.7	48.6	50.6	50.9	51.8	51.5	49.0						
200	46.2	46.3	47.7	49.3	52.9	53.0	52.5	53.8	52.7	53.1	50.0						
250	47.9	49.0	51.1	52.5	53.8	52.9	53.9	53.0	52.6	52.4	48.7						
315	49.3	50.9	52.0	53.4	55.5	53.0	53.5	52.9	53.0	52.0	48.0						
400	47.9	49.3	50.4	51.3	56.2	53.0	52.9	53.0	52.3	50.3	46.0						
500	46.4	48.0	49.1	50.8	57.8	51.9	53.6	51.9	51.7	49.4	45.2						
630	47.8	49.6	51.2	52.9	57.0	55.3	55.2	55.3	55.3	51.2	45.1						
800	49.4	50.3	52.1	53.3	56.6	55.2	56.8	56.1	55.6	50.9	45.3						
1000	47.7	50.1	52.2	53.9	57.7	56.8	57.4	57.5	55.9	50.2	43.4						
1250	49.1	52.2	54.6	56.1	58.4	59.7	60.3	60.3	58.7	51.9	44.5						
1600	57.2	60.8	66.7	64.2	64.8	67.1	65.8	67.1	67.0	56.4	48.3						
2050	52.5	56.7	58.7	61.1	63.1	64.4	64.1	63.1	60.4	52.3	45.0						
2500	52.2	56.5	59.3	63.5	65.4	66.0	65.1	64.3	61.9	53.4	45.2						
4000	51.4	57.0	60.3	63.3	65.5	66.4	66.8	65.6	63.5	53.5	44.0						
5030	51.0	56.7	60.3	63.3	66.0	66.6	66.9	66.2	62.6	53.0	44.0						
6300	48.0	53.7	56.9	60.9	62.9	64.2	64.1	63.6	60.8	50.5	44.6						
8000	45.1	51.0	54.9	58.4	60.7	61.7	62.0	61.5	57.0	47.1	42.2						
10000	42.6	48.2	52.6	56.9	59.1	60.0	60.0	60.0	55.5	44.6	38.9						
12500	39.2	44.5	48.8	53.3	55.8	56.1	56.6	55.5	50.3	38.3	34.3						
16000	31.5	37.9	42.0	45.6	49.1	50.2	49.9	48.9	42.1	28.4	25.5						
20000	25.1	31.1	36.1	40.3	42.9	43.7	44.7	42.4	35.1	18.9	18.8						
25000	17.3	22.9	27.8	32.4	34.5	34.9	34.6	31.8	23.0	3.1							
31500	4.9	11.4	17.1	21.9	23.7	24.3	22.5	17.6	6.7								
40000				4.4	6.1	6.3	3.4										
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.6	67.3	70.9	72.8	74.9	73.6	75.6	73.2	73.3	66.6	60.1						
PNLB	76.3	80.7	83.7	86.8	86.9	89.4	89.6	89.3	87.3	79.4	71.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 YR. 75

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.02)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	68.3	71.6	72.4	73.1	74.3	74.0	74.4	74.4	76.9	84.7	85.3							111.2
125	74.0	79.6	79.2	78.6	79.5	77.7	77.9	79.4	80.2	84.7	85.1							113.9
160	72.8	73.1	73.2	74.3	74.8	75.5	77.4	78.9	80.9	86.9	85.1							113.1
200	72.3	71.3	72.7	74.6	77.0	78.2	79.7	81.1	81.9	86.2	86.3							113.6
250	74.8	74.6	76.4	78.3	79.5	80.0	81.2	81.4	82.4	87.7	85.1							115.0
315	76.0	76.8	77.4	78.3	79.0	79.7	80.4	80.9	82.4	86.7	84.1							114.6
400	75.1	75.1	75.9	77.1	78.3	79.0	79.7	80.6	81.4	85.2	82.8							113.6
500	73.1	73.3	74.2	76.4	77.8	78.5	80.2	80.9	81.2	87.2	81.6							113.8
630	74.6	75.3	76.4	78.6	80.6	81.5	82.2	82.9	83.7	86.2	81.8							115.2
800	76.1	75.8	77.7	80.4	81.3	82.3	83.9	84.6	83.7	87.7	81.6							116.3
1000	75.1	75.8	77.7	79.6	81.3	82.5	83.9	84.6	85.2	86.9	80.1							116.3
1250	76.1	77.4	79.2	80.9	83.3	84.6	86.1	86.9	86.8	89.2	80.6							118.3
1600	78.4	81.6	82.7	86.7	89.1	90.1	91.4	90.9	91.2	86.5	82.1							122.4
2000	81.4	84.4	85.2	88.8	91.9	93.6	93.9	92.6	92.2	91.5	83.8							124.9
2500	79.9	82.9	85.4	89.3	90.7	91.6	91.9	92.3	91.2	90.8	83.1							123.7
3150	80.9	84.7	87.9	90.8	92.9	93.3	94.3	96.1	94.7	93.0	85.0							126.4
4000	81.3	85.9	88.8	91.5	93.4	95.8	96.0	96.2	94.9	92.7	87.0							127.3
5000	80.3	84.9	87.5	90.8	93.1	95.8	95.7	95.4	93.1	93.7	85.8							126.7
6300	78.1	83.4	86.0	89.4	91.5	92.8	94.8	95.3	91.9	94.2	85.3							125.6
8000	77.5	81.9	84.8	88.4	90.3	91.9	92.8	93.5	91.2	95.6	86.4							124.9
10000	76.5	81.0	84.6	87.5	90.3	92.3	92.6	94.0	91.4	93.9	86.4							124.9
12500	76.8	79.7	82.7	86.8	89.0	90.5	92.2	92.6	90.4	95.6	89.6							124.5
16000	72.8	76.9	79.6	83.5	86.4	87.9	90.3	91.2	87.7	95.5	92.1							123.5
20000	71.6	76.0	79.1	82.9	85.6	87.4	90.3	90.9	88.2	96.3	93.7							124.2
25000	70.9	73.9	77.3	82.2	84.2	86.5	88.3	89.8	86.1	94.5	94.6							123.6
31500	70.6	73.5	76.4	81.2	83.2	85.4	87.0	88.5	86.8	92.8	94.5							123.6
40000	69.7	71.6	74.8	78.9	81.3	83.2	85.6	85.5	83.5	90.1	93.8							121.1
50000	71.0	68.9	72.1	78.1	79.6	81.5	83.5	82.7	80.1	91.7	92.7							120.1
63000	72.5	67.8	70.5	77.9	79.3	79.8	80.9	79.2	75.8	92.3	90.5							119.8
80000	74.6	70.2	71.6	78.6	79.6	80.6	81.8	80.5	78.6	93.8	88.3							120.2
OVERALL MEASURED																		
OVERALL CALCULATED	91.3	94.5	96.9	100.1	102.2	103.8	104.7	105.2	103.5	106.7	103.9							130.2
PNDB	104.3	107.9	110.4	113.2	115.1	116.9	117.4	117.8	116.6	118.7	110.6							

ORIGINAL PAGE IS OF POOR QUALITY

NOISE SOURCE PRESSURE LEVELS (30. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.2	49.3	50.7	51.5	52.4	52.0	51.7	56.6	51.6	57.0	53.9						
125	51.9	57.3	57.3	56.9	57.8	55.6	55.1	55.5	54.7	54.9	53.5						
160	49.6	50.7	51.3	52.6	53.0	53.3	54.6	54.9	55.3	59.0	53.2						
200	49.0	48.8	50.7	52.8	55.1	56.0	56.7	57.0	56.2	58.1	54.2						
250	51.4	52.0	54.3	56.4	57.5	57.6	58.1	57.2	56.6	59.4	52.7						
315	52.5	54.2	55.2	56.4	57.0	57.3	57.3	56.6	56.5	58.2	51.5						
400	51.4	52.3	53.7	55.0	56.1	56.5	56.4	56.2	55.3	56.6	50.0						
500	49.4	50.5	51.6	54.2	55.6	55.9	56.8	56.4	54.9	58.4	48.4						
630	50.8	52.4	54.0	56.4	58.2	58.6	58.7	58.2	57.3	57.2	48.4						
800	52.1	52.7	55.1	56.9	58.9	59.4	60.3	59.8	57.1	58.4	47.8						
1000	51.8	52.6	55.8	57.1	58.7	59.6	60.2	59.7	58.4	57.4	45.9						
1250	51.9	54.8	56.3	58.3	60.6	61.4	62.3	61.7	60.0	58.4	44.8						
1600	53.9	58.1	59.7	63.7	66.3	66.8	67.3	65.5	64.8	58.4	47.8						
2000	56.7	60.7	62.8	65.8	68.8	70.1	69.6	67.8	64.7	61.8	48.2						
2500	55.8	58.8	62.8	64.2	67.4	67.9	67.4	66.5	63.4	59.2	46.9						
3150	55.7	58.4	64.2	67.1	69.4	69.4	69.5	69.9	66.5	61.8	48.8						
4000	55.6	61.2	64.8	67.7	69.5	71.4	70.8	69.5	66.8	60.5	48.8						
5000	54.5	59.9	63.2	64.7	67.9	70.4	70.2	68.4	63.9	61.8	48.8						
6300	51.3	57.7	60.9	64.6	66.6	67.4	67.6	67.3	61.5	60.8	44.3						
8000	49.4	55.8	58.6	62.6	64.8	65.4	65.2	64.2	59.2	59.3	42.2						
10000	46.6	52.5	56.9	60.1	62.8	64.2	63.3	62.7	57.8	54.6	39.6						
12500	43.5	48.8	52.8	57.2	59.3	60.8	60.4	58.5	52.6	51.8	34.3						
16000	36.8	42.1	46.8	50.3	53.1	53.7	54.4	52.4	44.3	44.4	28.8						
20000	29.1	36.1	40.6	45.8	47.4	48.1	48.9	45.8	37.4	35.6	13.3						
25000	20.3	26.8	31.8	37.8	39.2	39.1	39.1	36.8	24.8	28.1							
31500	8.2	15.4	20.9	26.6	28.2	28.5	26.5	21.8	9.2								
40000			3.3	9.8	11.4	10.7	8.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.8	69.8	72.5	75.7	77.7	78.7	78.6	77.5	74.3	72.2	63.1						
PNDB	78.8	83.4	86.4	89.5	91.3	92.6	92.3	91.4	88.3	85.2	73.3						

SIDELINE 200. FT.
(60.96 M)
VEHICLE R-SS
CONFIG 21
LOC SCHENECTADY
DATE 11/14/74
RUN 176
TAPE
BAR 29.7 HG
(30220. N/M2)
TAMB 46. DEG F
(282. DEG K)
THET 42. DEG F
(279. DEG K)
HACT 5.27 GM/M3
(.00527 KG/M3)
NFA 7194. RPM
(753. RAD/SEC)
NFK 7272. RPM
(761. RAD/SEC)
NF3 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
620. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 11 DAY 25 NO. 8.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5θ. (1.92)	6θ. (1.19)	7θ. (1.36)	8θ. (1.53)	9θ. (1.71)	10θ. (1.88)	11θ. (2.06)	12θ. (2.24)	13θ. (2.42)	14θ. (2.60)	15θ. (2.78)	θ. (0.)	θ. (0.)	θ. (0.)	θ. (0.)	θ. (0.)	θ. (0.)	PWL
50																		
63																		
80																		
100	72.5	73.8	74.9	75.1	75.5	76.5	76.9	77.4	80.6	103.	89.0							12
125	79.5	78.8	76.4	78.1	80.8	81.5	81.7	82.1	84.1	0.	88.6							12
160	76.5	77.3	77.1	77.6	78.5	78.7	80.4	82.1	84.4	93.	89.0							12
200	76.8	75.5	76.0	74.9	79.3	81.7	82.2	83.9	85.8	104.	90.3							12
250	79.7	79.5	80.6	81.6	82.5	83.2	84.9	84.9	86.1	104.	89.5							12
315	79.5	80.0	80.4	81.3	82.3	82.7	83.2	84.6	85.6	104.	88.5							12
400	79.8	78.5	79.1	80.1	81.0	81.5	82.9	84.1	84.3	103.	88.5							12
500	76.8	77.3	77.4	79.1	83.5	81.3	82.7	83.6	84.1	103.	89.5							12
630	78.6	79.6	79.9	81.4	83.3	84.3	85.4	85.6	86.1	104.	89.3							12
800	81.1	81.8	82.1	82.4	83.3	84.5	86.2	86.6	87.1	104.	89.5							12
1000	79.1	79.8	80.6	82.1	83.3	84.8	85.9	87.1	88.6	104.	89.8							12
1250	79.6	80.3	81.9	83.4	85.3	86.8	87.7	89.1	88.9	104.	89.1							12
1600	80.1	81.8	83.9	85.7	87.6	88.6	89.9	90.4	89.6	104.	89.1							12
2000	85.6	86.1	86.6	84.0	84.9	98.1	98.8	96.4	95.6	104.	87.8							12
2500	84.4	86.9	89.4	92.5	94.2	94.8	95.1	95.8	92.4	104.	88.5							12
3150	83.4	87.8	89.8	92.3	94.7	95.1	96.1	97.8	93.9	104.	87.8							12
4000	85.4	91.1	92.6	96.1	98.9	98.3	99.5	100.5	96.8	104.	91.7							12
5000	83.5	86.3	90.5	94.8	95.9	97.0	97.5	98.2	93.3	104.	91.2							12
6300	82.6	87.9	90.2	93.4	96.3	97.8	97.3	98.5	93.5	104.	93.8							12
8000	81.8	86.1	88.8	91.4	93.5	95.2	96.3	97.6	92.4	104.	95.7							12
10060	81.3	85.9	89.1	91.4	93.8	95.3	96.6	97.3	93.6	104.	97.6							12
12500	81.3	84.7	87.4	90.6	92.8	94.8	96.3	97.7	92.1	104.	97.6							12
16000	77.3	81.7	83.9	87.8	90.8	91.5	93.6	94.5	89.9	104.	98.4							12
20000	77.4	80.8	84.1	86.5	89.9	91.4	93.9	95.8	90.2	104.	99.3							12
25000	78.5	80.2	82.8	85.9	88.6	90.9	93.6	93.9	90.7	104.	95.4							12
31500	77.8	79.2	81.7	84.8	87.7	89.9	91.5	92.3	89.2	104.	93.5							12
40000	77.5	77.3	79.9	82.7	84.8	87.9	88.9	89.7	86.4	104.	90.7							12
50000	79.2	77.8	79.8	80.6	82.0	84.4	86.2	85.9	83.3	104.	89.4							12
63000	81.3	78.1	79.8	78.1	79.9	80.7	82.8	80.8	80.3	104.	88.9							12
80000	83.1	78.1	81.1	78.9	79.6	80.8	82.8	80.2	79.7	104.	86.8							12
OVERALL MEASURED																		
OVERALL CALCULATED	95.8	98.5	100.6	103.5	105.4	106.8	107.9	108.0	105.2	124.	107.3							12
PNDB	108.3	112.2	113.9	116.9	118.2	119.5	120.5	121.3	118.3	134.	119.5							

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MODEL SOUND PRESSURE LEVELS (DB, REF. P= 70 PERCENT REL. HUM., DAY)

ANGLES FROM INLET IN DEGREES (RAD)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT.	80																
(60.96 M)	100	49.5	51.5	53.1	53.5	53.9	54.5	54.2	53.6	55.3	[illegible]	57.6					
VEHICLE R-95	125	50.4	50.5	54.5	54.4	59.1	59.4	58.9	58.3	58.6	[illegible]	57.2					
CONFIG 21	160	53.3	54.9	55.2	55.9	56.7	56.5	57.6	56.2	59.8	[illegible]	57.2					
LOC SCHENECTADY	200	52.7	53.8	54.9	55.8	57.4	59.5	59.2	59.8	60.1	[illegible]	58.2					
DATE 11/14/74	250	56.3	56.9	58.5	59.7	60.5	60.9	61.9	60.7	60.3	[illegible]	57.2					
RUN 177	315	54.8	57.4	58.2	59.4	60.2	60.3	60.8	60.3	59.6	[illegible]	55.9					
TAPE	400	51.4	55.8	56.9	58.8	58.9	59.8	59.7	59.7	58.2	[illegible]	53.7					
BAR 29.7 MB	500	53.1	54.4	55.8	57.8	58.3	58.6	59.3	59.1	57.9	[illegible]	52.4					
(98220. N/M2)	630	54.7	56.1	57.4	59.1	61.8	61.5	61.9	61.8	59.7	[illegible]	51.9					
TAMB 40. DEG F	800	57.1	57.9	59.6	60.8	60.9	61.7	62.6	61.8	60.5	[illegible]	51.6					
(283. DEG K)	1000	54.3	55.8	57.9	59.6	60.7	61.8	62.2	62.2	59.8	[illegible]	49.6					
THET 42. DEG F	1250	55.3	56.9	59.1	60.4	62.6	63.4	63.8	64.8	61.9	[illegible]	49.5					
(279. DEG K)	1600	55.6	58.3	60.9	62.9	64.8	65.3	65.8	65.8	62.4	[illegible]	48.9					
MACT 0.08 GM/M3	2000	61.9	64.4	67.4	71.8	71.8	74.6	74.8	70.8	68.1	[illegible]	52.2					
(.000050 LB/M3)	2500	59.5	62.9	66.8	69.4	70.9	70.9	70.6	70.8	64.6	[illegible]	50.4					
NFA 7942. RPM	3150	54.1	63.4	66.8	68.9	71.2	71.1	71.3	71.7	65.7	[illegible]	50.8					
(832. RAD/SEC)	4000	59.8	66.4	68.5	72.2	73.9	73.9	74.3	73.8	68.9	[illegible]	53.5					
NFK 8020. RPM	5000	57.8	63.4	66.2	70.8	71.7	72.4	71.9	71.2	64.1	[illegible]	52.3					
(840. RAD/SEC)	6300	55.8	62.2	65.2	68.7	71.4	71.6	73.9	70.6	63.2	[illegible]	52.8					
NFB 8823. RPM	8000	52.9	59.2	62.6	65.6	67.5	68.7	68.7	68.4	60.4	[illegible]	51.4					
(924. RAD/SEC)	10000	51.4	57.4	61.4	64.4	66.3	67.2	67.3	66.8	59.2	[illegible]	48.9					
NO. OF BLADES 15	12500	48.8	53.8	57.5	61.3	63.1	64.3	64.4	63.5	54.3	[illegible]	42.5					
FAN TIP SPEED	16000	40.5	46.9	50.2	53.9	56.7	57.2	57.7	55.7	46.6	[illegible]	32.3					
683. FT/SEC	20000	34.9	40.9	45.6	48.6	51.8	52.2	52.5	50.9	39.4	[illegible]	18.9					
	25000	27.9	32.9	37.4	41.2	43.6	44.6	44.5	40.1	29.3	[illegible]						
	31500	19.4	21.2	26.1	30.2	32.7	33.8	31.8	25.6	12.3	[illegible]						
	40000		9.2	9.3	13.3	14.9	14.5	11.5	3.8		[illegible]						
	50000																
	63000																
	80000																
OVERALL CALCULATED		60.7	73.5	78.9	79.1	80.7	81.6	81.5	80.6	78.9	[illegible]	67.3					
MEAS		82.8	87.7	96.0	93.2	94.4	98.2	95.4	94.8	89.8	[illegible]	78.8					

NG

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 8.5

MODEL SOUND PRESSURE LEVELS (SR. 96.6, P. 78 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.62)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
AXIAL 17. FT. 80																		
S. N) 100	77.7	73.5	76.4	74.9	76.3	76.7	77.2	80.6	80.3	81.3	80.0							116.0
VEHICLE R-55 125	81.2	78.6	77.4	77.3	80.3	81.0	81.4	82.1	84.1	82.0	80.8							116.5
CONFIG 21 160	83.7	76.8	77.6	77.1	78.0	78.5	80.2	80.1	84.6	84.1	80.5							116.9
LOC SCHENECTADY 200	84.0	76.0	77.4	77.1	79.5	81.0	81.9	90.6	85.1	84.8	80.0							116.6
DATE 11/14/74 250	79.7	79.8	81.1	81.3	82.5	83.5	84.7	96.6	86.1	83.5	80.5							116.9
RUN 17/8 315	83.0	78.8	81.1	81.3	81.8	82.7	83.4	91.1	85.8	85.3	80.3							116.8
TAPE 400	79.3	78.5	79.9	79.3	81.0	81.2	82.9	87.6	84.6	85.6	80.6							117.0
BAR 29.7 IN 500	77.0	77.3	78.4	79.1	80.0	81.5	82.7	84.4	84.6	84.0	80.5							115.8
(100220. N/M2) 630	79.1	79.0	80.1	81.0	83.1	83.8	84.7	85.6	86.1	87.1	85.6							117.7
TAMB 49. DEG F 800	81.3	81.3	82.6	82.9	83.3	84.8	85.9	86.9	86.8	88.1	85.8							118.8
(283. DEG K) 1000	78.1	79.0	81.4	81.9	83.8	84.8	86.1	87.1	86.6	88.6	83.8							118.9
THET 42. DEG F 1250	78.1	80.3	81.6	83.4	85.6	86.6	86.2	89.1	86.4	90.8	85.1							120.3
(279. DEG K) 1600	79.9	81.8	83.6	85.7	87.9	89.3	90.1	89.9	89.6	89.6	83.3							121.7
MACT 0.00 GM/M3 2000	66.9	68.6	68.9	93.5	95.2	98.3	98.9	101.4	95.1	92.6	87.8							130.6
(.000 LB/M3) 2500	83.6	86.9	89.1	92.3	94.2	94.6	95.1	95.6	92.6	91.1	86.8							129.7
NF1 7943. RPM 3150	83.6	87.6	89.9	92.3	94.7	95.6	96.1	97.8	93.9	92.2	87.5							127.6
(832. RAD/SEC) 4000	84.8	90.9	92.6	95.9	96.7	98.3	99.8	99.8	97.1	96.1	91.7							130.4
NF2 8321. RPM 5000	83.8	88.6	91.3	93.3	95.5	97.5	98.8	96.2	93.5	92.6	89.8							129.8
(848. RAD/SEC) 6300	82.1	87.9	90.8	93.2	96.3	96.8	97.8	98.5	93.3	94.6	93.3							129.1
NF3 8823. RPM 8000	81.8	86.3	88.8	91.4	93.7	95.7	96.8	98.8	92.7	97.8	95.7							126.5
(924. RAD/SEC) 10000	81.1	85.9	89.3	91.3	93.6	95.3	96.4	97.3	93.3	97.6	98.1							126.9
NO. OF BLADES 15 12500	81.3	85.2	88.2	90.1	93.8	94.5	96.5	97.4	92.1	96.5	100.4							126.7
FAN TIP SPEED 16000	77.1	81.7	83.9	87.8	89.5	92.2	93.6	95.8	89.7	93.2	100.7							127.2
883. FT/SEC 20000	77.4	81.1	84.1	86.5	89.7	91.7	94.2	95.8	90.4	96.8	101.8							127.9
25000	77.5	80.5	83.3	85.9	88.6	90.9	93.4	94.4	90.4	96.4	98.7							127.3
31500	77.1	79.5	81.9	84.8	87.2	89.7	91.5	92.3	89.2	94.4	97.2							126.0
40000	77.2	77.8	80.2	82.5	84.3	87.2	89.1	89.2	86.4	92.3	95.8							125.0
50000	76.7	77.8	80.0	79.8	82.3	84.4	86.7	85.6	83.8	95.8	93.4							126.0
63000	80.5	76.9	80.0	77.8	79.4	80.9	82.3	81.1	80.3	96.5	92.9							129.3
80000	82.8	78.1	83.6	76.7	79.4	80.3	81.3	82.8	79.7	100.6	87.5							130.8
OVERALL MEASURED																		
OVERALL CALCULATED	96.8	90.8	102.7	103.3	105.4	107.0	108.0	109.3	105.2	108.3	100.8							142.8
PWL 100.	112.1	115.9	116.6	118.1	119.8	120.3	121.7	118.4	118.7	118.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 8.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 21
LOC SCHENECTADY
DATE 11/14/74
RUN 17/8
TAPE
BAR 29.7 HG (00226. N/M2)
TAMB 49. DEG F (283. DEG K)
TWET 42. DEG F (279. DEG K)
HACT 4.98 GM/M3 (.00498 KG/M3)
NFA 7943. RPM (832. RAD/SEC)
NFK 8021. RPM (840. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 693. FT/SEC

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	54.7	51.3	54.6	53.3	54.6	54.7	54.5	62.9	55.0	53.7	57.6						
125	58.1	55.7	55.5	55.7	58.6	58.9	58.6	63.3	58.6	55.0	57.2						
160	57.5	54.4	55.7	55.4	56.2	56.3	57.3	65.2	59.0	56.1	56.7						
200	60.7	53.5	55.4	55.3	57.6	58.7	59.0	66.5	59.4	56.7	58.7						
250	56.3	57.2	59.0	59.4	60.5	61.1	61.6	66.4	60.3	55.3	57.2						
315	54.5	57.1	59.0	59.4	59.7	60.3	60.3	66.8	59.9	56.6	55.7						
400	55.7	55.8	57.6	57.3	58.9	58.7	59.7	63.2	58.5	56.9	53.9						
500	53.3	54.4	56.0	57.0	57.8	58.9	59.3	59.9	58.4	56.8	52.4						
630	55.2	56.1	57.7	59.8	60.7	61.0	61.2	61.0	59.7	58.8	52.1						
800	57.4	58.2	60.1	60.5	60.9	61.9	62.3	62.1	60.3	58.8	52.0						
1000	54.3	55.8	58.7	59.4	61.2	61.8	62.4	62.2	59.8	61.1	49.8						
1250	54.5	56.9	58.8	60.8	62.9	63.4	64.3	64.0	61.4	61.1	50.5						
1600	55.4	59.3	60.6	62.9	65.0	66.0	66.1	64.5	62.4	59.5	48.2						
2000	62.2	64.9	75.7	70.5	72.1	74.9	74.6	75.8	67.6	62.1	52.2						
2500	58.7	62.9	65.8	69.2	70.9	70.9	70.6	69.8	64.8	60.3	50.7						
3150	58.4	63.4	66.2	68.9	71.2	71.6	71.3	71.7	65.7	60.8	50.6						
4000	59.1	66.2	68.5	72.0	72.7	73.9	73.8	73.1	68.2	57.9	53.5						
5000	57.0	63.6	66.9	69.2	71.7	72.9	72.4	71.2	64.3	59.9	52.8						
6300	55.3	62.2	64.9	68.4	71.4	71.4	71.4	70.6	63.8	60.4	52.3						
8000	52.9	59.5	62.6	65.6	67.8	69.2	69.0	68.7	60.7	61.5	51.4						
10000	51.1	57.4	61.6	63.9	66.1	67.2	67.1	66.0	59.8	58.2	49.4						
12500	48.8	54.3	58.3	60.5	63.3	64.1	64.7	63.3	54.3	52.7	45.0						
16000	40.3	46.9	50.2	53.9	56.2	58.0	57.7	56.2	46.3	44.1	34.5						
20000	34.9	41.1	45.6	48.6	51.5	52.4	52.8	50.0	39.7	38.3	28.8						
25000	26.9	33.2	37.9	41.2	43.6	44.5	44.2	40.6	29.1	28.1							
31500	14.7	21.4	26.3	30.2	32.2	32.8	31.0	25.6	12.3								
40000		3.7	9.5	13.1	14.4	14.8	11.7	3.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	70.4	73.5	78.6	78.8	80.7	81.7	81.6	81.9	75.8	72.3	67.3						
PNDB	82.8	87.6	92.4	92.9	94.3	95.3	95.2	95.2	89.9	84.9	78.0						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM — PROG. DATE = MONTH 11 DAY 25 YR. 8.5

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.22)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
50																		
63																		
80																		
100	79.3	73.6	76.7	77.9	78.3	76.3	73.7	68.7	71.7	75.7	77.6							109.5
125	68.3	68.6	71.2	67.9	71.3	69.0	68.7	70.2	72.9	73.2	75.6							104.7
160	65.4	66.6	66.7	66.9	67.8	68.0	69.9	70.9	72.9	75.7	76.6							104.4
200	66.3	65.6	66.9	67.9	69.5	71.0	72.2	74.2	75.2	77.2	78.1							106.2
250	68.3	68.3	69.9	70.9	71.5	72.0	72.9	73.7	74.7	75.7	76.3							106.4
315	69.8	69.6	70.4	71.6	72.0	72.5	72.9	73.7	74.7	76.4	76.3							106.8
400	68.3	68.6	69.4	70.4	71.3	72.3	73.2	73.9	74.7	75.2	74.3							106.2
500	67.3	67.8	68.4	70.4	71.6	72.0	73.2	73.9	74.2	74.4	73.8							105.9
630	69.6	69.6	70.4	72.4	74.1	75.1	75.9	76.4	77.2	77.2	75.1							108.4
800	71.6	71.1	72.4	73.9	75.3	76.1	77.9	78.4	78.9	77.4	75.6							109.9
1000	69.1	70.6	72.4	73.4	75.3	77.0	78.9	79.4	79.9	77.7	73.1							110.4
1250	73.6	75.9	76.7	74.7	81.1	82.3	84.2	85.2	86.7	84.5	78.3							116.2
1600	73.1	75.4	77.7	79.5	81.1	82.9	84.4	85.4	86.2	83.8	76.3							116.1
2000	74.4	76.7	77.7	80.6	83.4	84.9	85.4	84.7	83.7	80.5	76.8							116.4
2500	75.9	79.2	80.4	84.3	86.7	87.9	88.9	89.4	89.4	85.3	80.6							122.3
3150	75.4	78.7	80.4	83.6	86.7	87.1	88.9	88.9	90.4	84.3	80.8							122.2
4000	74.1	78.1	80.1	83.9	86.7	88.1	89.0	90.0	89.6	84.0	79.7							120.4
5000	72.8	77.4	79.5	82.6	85.4	86.8	87.7	88.5	88.6	82.9	80.2							119.2
6300	71.6	74.9	77.7	81.4	83.8	85.0	86.0	87.8	87.3	81.4	80.5							117.9
8000	69.7	73.6	76.3	79.9	82.4	84.2	85.8	86.5	86.7	79.9	81.9							117.8
10000	69.3	72.2	75.3	79.9	81.9	82.8	85.1	86.3	86.9	80.9	85.1							117.8
12500	69.2	71.1	73.4	78.3	80.7	83.5	84.9	86.4	85.6	79.1	86.6							117.8
16000	65.8	68.1	70.3	74.5	77.9	79.9	82.3	84.5	83.4	76.7	87.9							115.4
20000	65.8	67.3	69.8	73.9	76.8	78.6	81.5	84.1	83.6	76.8	86.7							115.7
25000	66.6	66.6	68.5	72.2	74.9	77.0	79.0	80.8	81.6	74.7	89.6							115.2
31500	66.4	66.3	67.7	71.8	74.5	76.7	78.3	79.9	81.3	74.1	85.5							114.2
40000	67.0	65.6	67.3	69.5	72.1	74.3	76.4	77.3	77.8	71.9	81.1							112.7
50000	69.6	66.3	68.7	67.8	69.7	71.4	74.1	73.6	74.2	70.5	80.3							112.5
63000	71.4	67.8	70.2	68.0	69.3	69.8	71.9	69.2	70.5	69.5	79.7							110.8
80000	73.7	69.8	71.7	69.3	69.9	70.9	71.6	70.8	70.4	71.1	73.1							110.8
OVERALL MEASURED																		
OVERALL CALCULATED	85.8	87.9	89.8	92.8	95.2	96.3	97.8	98.7	99.0	94.8	97.8							120.3
PNDB	98.3	101.1	102.9	105.9	108.4	109.7	110.7	111.5	111.9	107.3	104.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 28 HR. 8.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	56. (1.02)	66. (1.19)	76. (1.36)	86. (1.53)	96. (1.71)	106. (1.88)	116. (2.06)	126. (2.24)	136. (2.42)	146. (2.60)	156. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT.																	
(60.96 M) 100	47.2	51.3	54.9	56.3	56.4	54.2	51.0	44.9	46.3	48.0	46.2						
VEHICLE R-55 125	45.1	46.3	49.3	46.2	49.6	46.9	45.9	46.3	47.5	45.4	44.0						
CONFIG 21 160	42.6	44.2	44.8	45.2	46.0	45.8	47.1	46.9	47.3	47.7	44.7						
LOC SCHENECTADY 200	43.0	43.1	44.9	46.1	47.6	48.7	49.2	50.1	49.5	49.1	46.0						
DATE 11/14/74 250	44.9	45.7	47.8	49.0	49.6	49.7	49.9	49.5	48.8	47.4	44.0						
RUN 1779 315	45.5	46.9	48.2	49.7	50.9	50.1	49.8	49.4	48.7	46.0	43.7						
TAPE 400	44.7	45.8	47.2	48.3	49.7	49.8	49.9	49.5	48.6	46.6	41.5						
BAR 29.7 HG 500	43.6	45.0	46.1	48.3	49.3	49.4	49.8	49.4	47.9	45.6	40.7						
(00220. N/M2) 630	44.8	46.6	48.0	50.2	51.7	52.3	52.5	51.8	50.8	48.2	41.6						
TAMB 49. DEG F 800	47.6	48.0	49.9	51.6	52.9	53.2	54.3	53.6	52.4	48.2	41.8						
(283. DEG K) 1000	45.0	47.4	49.7	50.9	52.7	54.6	55.2	54.5	53.2	48.2	38.9						
TAEY 43. DEG F 1250	49.4	52.5	53.8	56.1	58.4	59.2	60.3	60.0	59.7	54.7	43.8						
(279. DEG K) 1600	48.7	51.8	54.7	56.7	58.3	59.6	60.3	60.1	59.0	52.9	41.3						
HACT 5.54 GM/M3 2000	49.7	52.9	54.5	57.6	60.3	61.4	61.1	59.1	56.2	50.0	41.2						
(.00554 KG/M3) 2500	51.0	55.2	57.0	61.2	63.4	64.2	64.4	63.6	61.7	54.4	44.4						
NFA 5567. RPM 3150	50.2	54.4	56.7	60.2	63.2	63.2	64.0	62.7	62.2	52.9	43.8						
(583. RAD/SEC) 4000	48.4	53.5	56.0	60.0	62.7	63.7	63.8	63.3	60.8	51.7	41.5						
NFK 5621. RPM 5000	46.8	52.4	55.2	58.5	61.2	62.1	62.2	61.4	59.4	50.2	41.3						
(589. RAD/SEC) 6300	44.8	49.2	52.7	56.7	58.9	59.6	59.6	59.9	57.0	47.3	39.5						
NFD 8823. RPM 8000	41.6	46.7	50.1	54.1	56.5	57.7	57.4	57.2	54.7	43.5	37.6						
(924. RAD/SEC) 10000	39.3	43.7	47.6	51.7	54.3	54.7	55.8	55.0	52.5	41.5	36.3						
NO. OF BLADES 15 12500	36.7	40.3	43.5	48.8	51.0	53.0	53.1	52.2	47.8	35.3	31.3						
FAN TIP SPEED 16000	28.9	33.3	36.7	41.3	44.6	45.7	46.3	45.6	40.0	25.8	21.7						
486. FT/SEC 20000	23.3	27.3	31.3	36.0	37.9	39.4	40.1	39.1	32.9	16.1	8.3						
25000	16.8	19.3	23.0	27.6	29.9	30.6	29.8	27.0	20.2	0.3							
31500	4.0	8.2	12.2	17.2	19.5	19.8	17.8	13.1	4.4								
40000				0.2	2.2	1.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.1	63.5	65.8	68.9	71.2	71.9	72.1	71.4	69.7	63.1	56.0						
PNDB	72.9	76.8	79.1	82.3	84.6	85.4	85.7	85.0	83.6	76.0	67.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PREC. DATE - MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (.87)	60. (1.05)	70. (1.22)	80. (1.39)	90. (1.57)	100. (1.74)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	0. (3.79)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	66.0	72.3	75.7	75.4	74.3	73.3	72.2	69.2	70.8	78.9	77.6							107.8
125	67.8	66.4	69.3	68.5	70.5	69.3	68.9	70.2	71.4	73.4	76.3							104.3
160	65.3	66.8	66.7	67.1	67.8	67.5	69.4	71.4	72.9	79.2	78.1							104.1
200	65.3	66.6	67.4	68.9	70.3	71.5	72.7	74.4	75.2	77.2	78.6							106.5
250	67.5	68.6	69.7	71.1	71.5	72.3	73.2	73.9	74.4	76.2	76.8							106.5
315	68.3	69.3	70.4	72.1	72.3	72.5	73.4	74.4	74.7	76.4	76.8							106.9
400	67.1	64.8	69.7	70.3	71.5	72.5	72.9	73.4	73.7	75.2	74.6							106.3
500	65.8	67.8	68.2	70.2	71.3	72.0	73.2	74.2	73.9	74.7	73.3							105.7
630	68.1	70.3	71.4	73.2	74.3	75.3	76.2	76.9	77.4	77.5	74.8							108.7
800	71.6	72.1	73.9	74.2	75.3	76.3	76.2	76.9	79.7	78.2	75.6							110.4
1000	68.9	71.1	73.2	73.9	75.3	76.6	77.9	79.7	80.2	78.4	74.1							110.4
1250	72.6	75.6	76.9	79.2	80.9	81.3	82.4	82.9	82.9	82.6	79.1							110.6
1600	70.9	74.4	76.9	78.9	81.4	81.9	83.9	84.4	85.7	85.7	82.9	75.1						116.1
2000	71.4	75.4	74.2	80.9	83.9	84.9	85.4	85.1	83.9	81.2	76.1							116.9
2500	74.1	78.9	81.1	84.8	86.4	87.6	89.4	88.9	90.2	84.5	80.1							120.3
3150	73.1	78.4	80.3	84.1	86.7	87.3	88.6	89.1	90.2	84.2	79.8							120.1
4000	72.3	78.3	80.8	84.5	86.1	87.5	89.2	90.5	90.1	84.2	79.5							120.5
5000	72.5	76.0	79.2	82.8	85.3	86.5	87.7	88.4	88.5	82.6	77.1							119.0
6300	69.3	75.1	77.6	81.9	83.7	84.9	86.4	88.0	87.8	81.8	76.7							118.8
8000	67.6	73.5	77.1	80.6	82.1	83.6	85.2	86.7	86.9	81.0	75.0							116.9
10000	66.9	72.0	75.4	79.8	81.1	83.4	85.4	86.6	86.4	81.2	75.7							116.8
12500	67.0	70.4	73.9	78.4	80.2	82.0	84.2	85.2	84.9	79.4	73.9							115.7
16000	63.7	67.8	70.5	80.2	77.1	79.6	81.5	84.4	82.6	76.4	72.3							114.3
20000	63.6	66.6	69.6	80.6	75.9	77.0	83.4	84.0	82.0	76.4	71.3							114.1
25000	64.1	66.4	68.3	82.8	74.2	74.3	78.0	81.6	79.9	73.7	69.1							113.7
31500	63.3	65.4	67.1	81.3	73.7	75.4	77.2	80.0	79.6	73.3	67.5							113.4
40000	64.6	64.9	65.8	79.4	73.9	73.1	75.3	78.1	78.6	71.0	64.4							112.4
50000	66.9	66.1	67.3	79.7	68.8	71.5	73.0	72.9	72.6	69.6	65.2							113.1
63000	69.6	67.9	69.1	71.8	69.4	70.4	71.3	70.6	69.9	69.6	67.1							112.8
80000	72.6	69.3	71.9	70.9	70.1	71.1	71.5	71.2	70.6	71.0	70.0							117.8
OVERALL MEASURED																		
OVERALL CALCULATED	84.1	87.6	90.0	94.4	95.0	96.4	97.9	98.8	98.9	94.3	90.6							138.8
PNDB	96.3	100.9	103.2	106.5	108.3	109.4	110.9	111.9	111.9	107.3	103.3							

RADIAL 17. FT. (5. M)
VEHICLE RFSS
CONFIG 22
LOC SCHENECTADY
DATE 12/13/74
RUN 46/2
TAPE
BAR 29.9 IN HG (01000. N/M2)
TAMB 47. DEG F (281. DEG K)
T-ET 45. DEG F (280. DEG K)
MACT 7.26 GM/M3 (.00726 KG/M3)
NFA 5516. RPM (578. RAD/SEC)
NFK 5581. RPM (584. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 402. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 16 YR. 15.1

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	FREQ.																	
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	43.6	50.1	53.9	53.5	52.6	51.2	49.5	45.4	45.6	47.3	46.2						
VEHICLE ROSS	125	44.6	44.5	48.1	47.0	48.8	48.2	46.2	46.3	44.6	45.8	44.7						
CONFIG 22	160	42.1	44.4	44.3	45.4	46.9	45.3	46.8	47.4	47.3	47.2	44.2						
LOC SCHWEIKHARDT	200	42.6	44.1	45.4	47.1	48.4	49.2	49.7	50.3	49.5	49.1	46.5						
DATE 12/13/74	250	44.1	46.3	47.6	49.2	49.5	49.9	50.1	49.7	48.4	47.9	44.5						
RUN 40/2	315	44.8	46.7	48.2	50.2	50.2	50.1	50.3	50.1	48.7	48.0	44.2						
TAPE	400	43.4	46.1	47.4	48.8	49.4	50.0	49.7	50.0	48.6	46.6	41.7						
BAR 29.9 IN	500	42.1	45.3	45.4	48.0	49.1	49.4	49.8	49.7	47.7	45.9	40.2						
(1000. LB/M2)	630	44.3	47.4	49.3	50.9	52.0	52.6	52.7	52.3	51.0	48.4	41.4						
TAMB 47. DEG F	800	47.6	49.3	51.4	51.8	52.9	53.5	54.6	55.1	52.6	49.9	41.8						
(281. DEG K)	1000	44.7	47.9	50.3	51.4	52.7	53.6	54.2	54.7	53.4	48.9	39.9						
THET 45. DEG F	1250	49.4	52.2	54.1	56.6	58.1	60.2	61.9	60.8	60.0	54.7	44.5						
(280. DEG K)	1600	46.4	51.8	53.9	59.2	58.5	60.6	60.3	60.3	58.5	51.6	41.8						
HACT 7.26 GM/M3	2000	46.7	51.6	55.0	59.1	60.8	61.4	61.1	59.6	54.4	50.7	40.5						
(.0007 26 LB/FT3)	2500	49.2	55.0	57.8	61.7	63.2	63.9	64.9	63.1	62.4	53.7	43.9						
NFA 5516. RPM	3150	47.9	54.2	56.7	60.7	63.1	63.4	63.8	62.9	62.0	52.8	42.8						
(578. RAD/SEC)	4000	46.6	53.7	56.7	60.7	62.2	63.1	64.0	63.6	61.2	51.9	41.2						
NFK 5501. RPM	5000	44.5	51.1	54.9	59.7	61.2	61.6	62.1	61.4	58.3	49.9	38.2						
(584. RAD/SEC)	6300	42.7	49.4	52.6	57.1	58.8	59.6	60.0	60.0	57.4	47.7	35.7						
NFD 8823. RPM	8000	39.5	46.6	51.0	54.7	56.1	57.0	57.6	57.3	54.9	44.7	30.8						
(924. RAD/SEC)	10000	36.9	43.5	47.7	52.5	53.6	55.3	56.1	55.3	52.1	41.9	26.9						
NO. OF BLADES 15	12500	34.5	39.5	44.0	50.3	50.5	51.6	52.4	51.0	47.1	35.6	18.5						
FAN TIP SPEED	16000	26.9	33.0	36.9	47.3	43.8	45.4	45.6	45.6	39.2	25.3	6.2						
482. FT/SEC	20000	21.1	26.7	31.2	42.7	37.8	38.7	39.0	39.0	31.3	15.7							
	25000	13.5	19.1	22.6	38.1	29.2	29.9	28.9	27.8	18.5								
	31500	0.9	7.4	11.6	26.7	18.7	18.5	16.7	13.3	2.1								
	40000				10.8	1.8	0.7											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		58.5	63.2	66.0	69.4	71.0	71.8	72.3	71.6	69.8	63.0	55.8						
	PNDB	71.1	76.5	79.3	82.8	84.7	85.3	85.8	85.4	83.5	75.8	66.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (50. DEG, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND MACH#S)

FREQ.	50. (1.02)	60. (1.17)	70. (1.36)	80. (1.53)	90. (1.7)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.0	73.1	71.9	71.1	71.3	72.0	71.6	72.4	73.7	77.7	86.6							107.8
125	68.8	70.1	70.7	70.9	73.0	71.8	72.4	73.7	75.2	77.4	80.3							107.5
160	67.8	69.3	69.4	70.6	73.8	71.5	72.9	74.9	76.7	79.4	80.3							107.9
200	68.3	69.3	70.2	71.9	73.1	75.9	75.7	77.9	78.4	80.9	82.6							110.0
250	70.0	71.8	73.2	74.4	75.3	75.3	77.2	77.4	78.2	79.7	80.3							110.0
315	72.0	73.6	74.9	75.6	76.9	76.0	76.7	77.9	77.9	80.2	80.3							110.5
400	70.3	71.5	72.7	74.1	75.0	75.5	75.9	77.2	77.9	78.7	78.3							109.5
500	69.1	70.3	71.4	73.2	74.1	74.3	76.7	77.4	77.4	77.7	77.3							108.9
630	71.1	73.3	74.2	76.2	77.3	78.6	78.9	79.9	80.2	80.2	78.1							111.6
800	72.6	74.1	75.4	76.7	77.8	79.0	80.4	81.2	80.9	79.4	77.9							112.3
1000	71.4	73.8	75.7	76.2	77.6	79.1	81.2	82.4	82.7	80.2	76.8							112.9
1250	71.9	75.1	76.9	78.7	81.1	82.6	84.9	84.2	85.9	82.0	78.1							116.1
1600	74.6	82.6	85.2	88.3	88.9	88.9	91.1	94.4	93.4	87.7	81.1							123.5
2000	74.6	79.1	81.7	85.0	86.9	87.6	88.4	88.1	86.9	82.7	78.6							119.8
2500	75.1	80.9	83.4	86.3	88.4	89.4	89.6	91.1	90.2	84.7	79.8							121.6
3150	77.6	83.1	84.9	88.8	90.4	91.8	93.6	94.3	94.4	88.5	84.5							124.7
4000	75.3	81.6	83.8	87.3	89.1	91.0	92.0	92.2	91.8	85.9	81.2							123.8
5000	76.0	82.3	85.2	88.4	90.3	93.0	92.4	93.4	91.5	86.4	80.9							124.1
6300	73.3	79.1	81.9	86.1	87.8	89.7	90.2	91.7	90.3	84.9	79.7							121.8
8000	71.6	77.7	81.4	84.6	86.3	88.1	89.4	90.9	89.4	84.0	78.8							120.9
10000	70.9	76.8	80.2	84.4	85.9	87.7	89.4	90.7	90.0	84.0	78.7							120.9
12500	70.6	75.2	78.7	83.9	84.8	86.5	88.0	90.2	87.7	82.8	76.9							119.9
16000	66.8	72.1	75.3	82.9	81.2	84.2	85.6	87.7	84.9	79.7	75.1							117.7
20000	66.0	70.9	75.0	83.4	80.7	82.3	85.5	88.1	85.4	79.2	73.9							118.1
25000	65.3	70.0	72.3	84.6	78.5	80.6	83.4	86.2	83.5	77.0	71.9							117.3
31500	65.2	68.8	71.3	84.4	78.0	80.3	81.8	84.9	82.3	76.4	70.3							117.4
40000	64.7	67.1	69.2	83.3	75.1	77.5	79.9	81.8	80.8	74.7	68.1							116.9
50000	67.1	67.3	69.0	82.3	72.0	74.6	77.4	77.9	76.3	72.8	66.4							116.3
63000	69.6	67.7	69.4	78.4	69.2	71.3	73.1	73.4	71.9	69.7	67.6							115.5
80000	72.6	71.1	71.9	71.0	70.1	71.1	71.5	71.5	70.8	71.0	70.1							116.0
OVERALL MEASURED																		
OVERALL CALCULATED	67.2	91.5	93.9	98.1	98.8	100.3	101.5	102.9	101.9	97.0	93.7							133.8
PNDB	100.2	105.0	107.0	110.4	111.9	113.4	114.7	115.8	115.3	110.5	106.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. LFG, F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	50.3	50.8	50.2	49.6	47.6	50.0	49.2	48.6	47.3	50.0	39.2						
125	45.6	47.8	48.8	49.2	51.3	49.7	49.7	49.8	49.7	49.6	48.7						
160	44.6	46.9	47.5	49.8	49.9	49.3	50.1	50.9	51.1	51.5	48.5						
200	45.0	46.8	48.2	50.1	51.9	53.2	52.7	53.8	52.7	52.8	50.5						
250	46.6	49.2	51.1	52.5	53.1	52.9	54.1	53.2	52.3	51.4	48.0						
315	48.5	50.9	51.7	53.7	54.0	53.6	53.5	53.6	52.8	51.7	47.7						
400	48.7	49.1	50.4	52.1	52.7	53.0	52.7	52.8	51.8	50.1	45.5						
500	45.4	47.5	49.1	51.0	51.8	51.7	53.3	52.9	51.2	48.9	44.2						
630	47.3	50.4	51.7	53.9	55.0	55.8	55.5	55.3	53.8	51.2	44.6						
800	49.6	51.6	52.9	54.7	55.4	56.0	56.4	56.4	54.4	50.2	44.0						
1000	47.2	50.6	53.0	53.7	55.0	56.1	57.4	57.5	55.9	50.7	42.7						
1250	47.6	51.7	54.1	56.1	58.4	59.5	61.0	61.0	59.0	52.2	43.5						
1600	54.2	59.1	62.2	65.2	66.0	65.6	67.1	69.1	66.2	57.6	46.0						
2000	49.9	55.4	58.5	62.1	63.8	64.1	64.1	62.6	59.4	52.2	43.0						
2500	50.2	57.3	60.0	63.7	65.2	65.7	65.1	65.3	62.4	53.9	43.7						
3150	52.4	58.9	61.2	65.4	66.9	67.9	68.8	68.2	66.2	57.1	47.6						
4000	49.6	56.9	59.7	63.5	65.2	66.6	66.7	65.5	63.0	53.7	43.0						
5000	50.0	57.4	60.9	64.7	66.2	66.3	66.9	66.4	62.3	53.7	42.0						
6300	46.4	53.4	56.9	61.4	62.6	63.3	63.8	63.6	60.0	50.7	38.7						
8000	43.5	50.9	55.3	58.7	60.4	61.6	61.8	61.6	57.4	47.7	34.5						
10000	41.0	48.3	52.5	57.0	58.4	59.6	60.1	59.4	55.6	44.7	30.0						
12500	38.0	44.3	48.6	54.3	55.1	56.1	56.2	56.1	49.9	38.8	21.6						
16000	29.9	37.3	41.7	48.8	48.6	49.9	49.6	48.9	41.5	28.6	9.0						
20000	23.5	31.0	36.5	45.5	42.6	43.1	44.1	43.1	34.6	18.6							
25000	15.4	22.7	26.9	38.9	33.6	34.2	34.2	32.3	22.1	2.7							
31500	2.7	10.7	15.7	29.9	23.0	23.4	21.3	18.2	5.8								
40000				13.9	5.1	5.1	2.5										
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.9	67.0	69.6	73.3	74.6	75.5	75.7	75.7	72.9	65.7	59.1						
PNDB	74.9	80.7	83.3	86.9	88.3	89.2	89.7	89.4	87.0	79.1	70.1						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 22
LOC SCHENECTADY
DATE 12/13/74
RUN 40/3
TAPE
BAR 29.9 HG (01000. N/M2)
TAMB 48. DEG F (282. DEG K)
TDET 45. DEG F (280. DEG K)
HACT 6.96 GM/M3 (.00696 KG/M3)
NFA 6304. RPM (660. RAD/SEC)
NFK 6372. RPM (667. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 550. FT/SEC

FULL SCALE DATA WEIGHTING PROGRAM

PWRC. DATE - MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	5a. (1.57)	6a. (1.9)	7a. (1.36)	8a. (1.53)	9a. (1.71)	10a. (1.88)	11a. (2.04)	12a. (2.24)	13a. (2.42)	14a. (2.60)	15a. (2.78)	0. (0.)	0. (180.)	0. (110.)	0. (110.)	0. (110.)	0. (180.)	PWL
50																		
63																		
80																		
100	67.8	71.6	72.7	71.9	72.0	73.0	73.2	73.4	76.4	81.9	85.1							109.9
125	75.3	78.6	78.4	77.4	77.5	77.5	78.7	77.9	79.2	82.2	84.8							112.8
160	71.0	73.6	72.9	74.1	74.3	74.5	76.2	78.4	80.4	83.9	85.1							111.9
200	70.8	71.3	72.7	74.1	76.3	77.8	78.7	80.9	81.4	84.9	84.1							113.2
250	74.3	74.8	76.7	78.1	79.3	78.5	80.2	81.4	82.2	84.2	84.8							113.8
315	74.8	76.6	76.9	78.6	79.8	79.6	80.2	80.9	81.7	83.9	84.1							113.9
400	74.8	74.3	75.7	76.6	77.5	78.3	78.9	80.7	81.2	82.2	82.3							112.6
500	71.6	73.6	74.4	75.9	77.1	77.5	78.7	80.2	80.9	81.4	81.1							112.1
630	73.4	75.6	76.2	78.2	79.6	80.8	81.7	82.4	82.7	82.7	81.6							114.1
800	74.9	76.6	77.9	79.4	79.8	81.1	82.4	83.4	83.2	82.7	81.3							114.7
1000	74.4	76.8	78.2	79.4	80.3	82.1	83.4	84.9	85.2	81.9	79.8							115.5
1250	74.4	76.9	78.7	80.7	82.9	85.1	87.2	87.7	86.9	83.0	80.6							117.9
1600	78.6	82.6	83.4	87.8	89.1	90.9	90.9	92.4	90.9	84.7	82.1							122.7
2000	79.6	84.1	85.9	89.8	91.1	92.6	92.1	93.4	91.4	84.2	82.6							124.1
2520	77.6	83.7	85.9	90.1	91.7	92.6	91.9	93.1	90.9	86.9	82.1							124.1
3150	79.6	84.7	87.1	91.1	93.2	93.9	94.1	95.8	94.4	89.2	84.5							126.1
4000	79.3	85.4	88.0	92.3	93.6	95.6	95.5	96.0	94.9	89.4	85.2							127.0
5000	79.0	84.8	88.2	92.0	93.3	94.8	94.9	95.9	93.5	87.9	83.4							126.5
6300	77.0	83.4	85.7	89.6	91.5	93.2	93.7	95.5	91.5	87.1	82.8							125.2
8000	75.7	82.8	84.9	89.4	90.4	91.9	93.5	94.7	91.2	86.3	81.3							124.6
10000	74.7	80.8	85.0	89.2	90.4	91.7	93.0	94.2	91.3	86.3	81.8							124.3
12500	73.4	80.0	83.3	88.9	89.1	91.1	91.8	94.0	89.7	85.2	80.2							123.6
16000	70.9	76.8	80.1	84.1	86.0	87.5	89.4	91.8	87.0	81.8	77.7							121.2
20000	69.8	75.3	79.1	84.2	85.1	86.7	89.6	91.9	88.0	82.6	77.0							121.0
25000	68.8	74.1	77.2	84.3	83.4	85.5	87.3	90.0	86.3	80.7	75.3							120.0
31500	69.1	73.3	76.2	84.5	82.7	84.4	86.2	88.6	85.7	79.3	73.2							120.0
40000	67.2	70.1	73.7	83.2	79.3	82.0	84.6	85.7	83.2	77.8	68.2							118.7
50000	67.8	68.5	71.2	82.3	76.2	78.3	81.4	82.3	82.0	75.5	67.1							118.0
63000	68.9	67.2	69.9	77.6	71.5	73.5	75.8	76.1	75.9	70.8	67.4							116.0
80000	72.5	69.6	71.7	73.5	70.2	71.2	72.3	72.1	72.1	70.8	69.9							116.8
OVERALL MEASURED																		
OVERALL CALCULATED	89.8	94.5	96.9	100.8	102.2	103.7	104.2	105.7	103.3	99.2	96.8							130.3
PNDB	102.8	107.7	110.1	113.7	115.2	116.7	117.0	117.9	116.5	112.3	109.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.7	49.3	50.4	50.3	50.4	51.0	50.5	49.6	51.1	54.3	53.7						
125	52.1	56.3	56.6	56.0	55.8	55.4	53.9	54.1	53.7	54.4	53.2						
160	47.8	51.2	51.0	52.4	52.5	52.3	53.3	54.4	54.8	56.0	53.2						
200	47.5	48.8	50.7	52.3	54.4	55.5	55.7	56.8	55.7	56.8	54.0						
250	50.6	52.2	54.6	56.2	56.3	56.2	57.1	57.2	56.3	55.9	52.2						
315	51.3	53.9	54.7	56.7	57.0	57.3	57.0	56.8	55.7	55.5	51.5						
400	52.2	52.1	53.4	54.6	55.4	55.6	56.7	56.3	55.1	53.6	49.5						
500	48.1	50.7	52.1	53.8	54.8	54.9	56.3	55.7	54.7	52.6	47.0						
630	49.5	52.6	53.7	55.9	57.2	57.6	58.2	57.8	56.3	53.7	48.1						
800	50.0	53.5	55.4	57.1	57.4	54.2	58.8	58.6	56.6	53.4	47.5						
1000	50.2	53.4	55.5	56.9	57.7	59.1	59.7	60.0	58.4	52.4	45.7						
1250	50.1	53.5	55.8	58.1	60.1	62.0	63.3	62.5	60.0	53.2	46.0						
1600	54.2	59.1	60.4	65.0	66.3	67.6	66.4	67.1	63.7	54.6	47.0						
2000	54.9	60.4	62.7	66.8	68.1	69.1	67.8	67.8	63.9	55.8	47.0						
2500	52.7	59.7	62.5	66.9	68.4	69.0	67.4	67.3	63.2	55.2	45.9						
3150	54.4	60.4	63.5	67.7	69.7	69.9	69.3	69.7	66.2	57.9	47.6						
4000	53.6	60.7	64.0	68.5	69.7	71.2	70.2	69.3	66.6	57.2	47.0						
5000	53.0	59.9	63.9	68.0	69.2	70.1	69.4	68.9	64.3	55.2	44.5						
6300	50.2	57.7	60.6	64.9	66.6	67.8	67.3	67.6	61.2	53.0	41.0						
8000	47.5	55.2	58.8	62.5	64.4	65.4	65.9	65.4	59.2	50.0	37.1						
10000	44.8	52.3	57.3	60.8	62.9	63.6	63.7	62.9	56.9	47.0	33.8						
12500	40.8	49.1	53.4	57.4	58.4	60.7	60.0	59.9	52.0	41.4	28.9						
16000	34.0	41.2	46.5	50.9	52.7	53.3	53.4	53.0	43.6	30.7	11.6						
20000	27.3	35.4	40.6	46.3	47.0	47.4	48.2	46.9	37.2	21.9							
25000	18.3	26.8	31.8	39.6	38.4	39.1	38.1	36.2	25.0	6.3							
31500	5.7	14.9	20.8	29.9	27.7	27.5	25.7	21.8	8.9								
40000			3.0	13.9	9.4	9.5	7.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.5	69.8	72.5	76.4	77.6	78.7	78.1	77.9	74.1	67.9	62.7						
PNDB	77.5	83.2	86.1	90.1	91.4	92.5	91.8	91.5	88.0	80.8	72.1						

PAGE 1 FULL SCALE DATA CORRECTED FOR DOPPLER — PROC. DATE = MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		50. (1.22)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.04)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	50																	
		63																	
RADIAL 17. FT.		80																	
(5. FT	100	71.2	73.5	74.4	74.6	75.5	76.2	76.4	77.1	80.1	84.8	89.3							113.6
VEHICLE RUSS	125	77.5	76.8	77.6	77.8	77.3	79.2	80.2	81.9	82.6	84.6	88.8							115.0
CONFIG 22	160	74.7	76.5	76.4	77.4	78.3	78.0	79.0	81.9	83.8	85.8	88.8							115.1
LOC SCHENECTADY	200	75.2	75.5	76.1	77.6	78.5	81.2	81.9	84.1	85.3	87.8	90.3							116.7
DATE 12/13/74	250	77.7	79.0	80.1	81.4	82.5	83.0	84.7	85.6	85.8	87.8	89.8							117.9
RUN 40/5	315	74.2	79.5	80.6	81.6	82.0	82.5	83.2	84.6	85.1	86.8	88.8							117.1
TAPE	400	77.0	78.5	78.9	79.8	80.8	81.2	82.2	83.9	84.1	85.3	86.8							116.9
BAR 29.9 HG	500	76.0	77.5	77.1	79.1	80.0	81.3	82.4	83.6	83.8	85.1	85.3							115.4
(101000. N/M2)	630	76.6	78.5	79.8	81.4	82.3	83.5	84.2	85.6	85.6	86.8	85.5							117.1
TAMB 47. DEG F	800	81.1	81.3	83.1	82.9	84.1	84.3	85.9	86.9	86.8	85.3	86.0							118.8
(281. DEG K)	1000	79.3	79.8	81.4	82.1	83.3	84.3	85.9	87.1	86.8	84.1	83.8							117.9
TMET 44. DEG F	1250	77.1	80.0	81.6	83.2	84.8	87.3	88.9	89.6	88.6	84.3	84.3							119.9
(280. DEG K)	1600	77.9	81.3	83.6	87.8	88.4	90.1	90.4	91.1	89.8	84.6	83.8							121.9
MACT 0.69 GM/M3	2000	82.6	87.6	91.0	95.2	95.8	98.8	98.1	99.4	97.4	90.8	88.3							126.8
(.00069 KG/M3)	2500	91.3	87.6	89.6	93.3	94.4	94.1	96.9	95.8	92.6	87.9	84.8							126.6
NFA 7077. RPM	3150	81.3	87.6	89.8	93.3	94.9	95.3	95.3	97.3	94.3	89.4	86.2							127.5
(829. RAD/SEC)	4000	83.3	89.8	92.7	96.7	97.1	96.3	99.2	99.5	96.3	92.6	88.7							130.4
NFK 7078. RPM	5000	81.8	88.2	90.3	94.2	95.8	97.2	97.7	98.1	93.7	88.5	86.4							128.8
(834. RAD/SEC)	6300	81.8	87.3	90.6	93.8	94.9	96.7	96.9	98.7	94.8	90.8	85.8							128.5
NFB 8023. RPM	8000	79.4	86.2	88.8	92.8	93.6	95.3	95.9	97.9	93.1	88.4	84.3							127.5
(924. RAD/SEC)	10060	78.6	85.7	88.6	91.8	93.1	94.9	96.8	97.4	93.2	88.9	84.2							127.4
NO. OF BLADES 15	12500	78.3	85.2	88.4	91.3	92.8	93.5	95.3	96.7	91.9	87.5	83.9							126.8
FAN TIP SPEED	16000	75.3	81.6	84.0	88.5	89.2	90.9	92.8	94.7	89.4	84.6	81.1							126.5
600. FT/SEC	20000	75.8	80.4	83.2	86.1	89.0	90.3	93.3	94.0	89.8	84.4	80.1							126.8
	25000	75.2	79.7	81.8	86.9	88.1	88.9	92.2	93.8	89.4	84.2	79.9							126.8
	31500	74.4	78.8	81.8	84.9	86.1	88.5	90.4	91.7	88.3	82.5	77.8							123.8
	40000	74.3	78.8	79.8	82.8	83.9	85.8	87.7	88.5	85.7	81.1	73.6							120.8
	50000	76.5	76.7	78.6	79.7	81.1	83.0	85.8	85.8	82.6	78.1	74.5							121.9
	63000	78.5	76.3	76.5	78.8	78.8	80.1	81.7	80.3	80.8	77.5	78.1							122.9
	80000	82.4	78.1	81.7	79.3	80.9	80.9	81.4	81.1	79.8	80.2	79.9							127.4
OVERALL MEASURED																			
OVERALL CALCULATED		93.6	90.2	100.9	104.2	105.3	106.7	107.5	108.6	105.3	101.8	100.8							130.8
	PWLP	108.1	111.5	114.1	117.5	118.3	119.5	120.2	121.6	118.2	114.9	112.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS 150. DEG. F, 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5°. (1.02)	6°. (1.19)	7°. (1.36)	8°. (1.53)	9°. (1.71)	10°. (1.88)	11°. (2.06)	12°. (2.24)	13°. (2.42)	14°. (2.60)	15°. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(69.96 N)	100	48.2	51.3	52.6	53.3	53.7	54.2	53.7	53.4	54.0	57.2	57.9						
VEHICLE R-55	125	54.4	54.5	55.8	56.2	57.5	57.1	57.4	56.0	57.1	54.9	54.9						
CONFIG 22	160	51.5	54.1	54.5	55.8	56.5	55.8	57.1	57.0	56.3	57.8	56.9						
LOC SCHENECTADY	200	51.9	53.3	54.1	55.4	57.5	59.0	59.0	60.0	59.6	59.7	58.2						
DATE 12/13/74	250	54.3	56.4	58.8	59.7	60.5	60.6	61.4	61.4	60.0	59.5	57.4						
RUN 405	315	54.7	56.9	58.5	59.6	60.3	60.0	60.0	60.3	59.1	59.3	55.4						
TAPE	400	53.4	55.8	56.8	57.8	58.5	58.7	58.9	59.5	58.[illegible]	54.7	53.9						
BAR 29.9 HG	500	52.3	54.7	54.8	57.0	57.8	56.6	59.1	59.1	57.6	56.2	52.2						
(101006. N/M2)	630	52.7	55.6	57.2	58.1	60.1	60.8	60.7	61.0	59.2	56.5	52.[illegible]						
TAMB 47. DEG F	800	57.1	58.2	60.6	60.5	61.6	61.4	62.3	62.1	60.[illegible]	58.1	52.3						
(281. DEG K)	1000	54.2	56.5	58.7	59.4	60.7	61.3	62.2	62.2	60.1	54.8	49.8						
TWET 44. DEG F	1250	52.8	56.7	58.8	60.4	62.1	64.2	65.9	64.5	61.6	54.8	49.7						
(280. DEG K)	1600	53.4	57.8	60.6	64.2	65.5	66.8	66.3	65.8	62.6	56.5	47.7						
HACT 6.69 G/M3	2000	57.9	63.8	68.7	72.3	72.5	73.3	73.8	73.8	69.8	60.4	52.7						
(.00669 KG/M3)	2500	36.4	63.7	66.2	70.1	71.2	70.4	70.4	70.0	64.9	57.0	48.6						
NFA 7077. RPM	3150	56.1	63.4	66.2	69.9	71.4	71.4	70.5	71.1	66.1	58.0	49.3						
(825. RAD/SEC)	4000	57.5	65.1	68.7	72.9	73.2	73.9	74.0	73.8	67.4	60.3	50.5						
NFK 7878. RPM	5000	54.9	63.3	66.6	70.2	71.7	72.6	72.1	71.1	64.5	56.9	46.4						
(826. RAD/SEC)	6300	54.2	61.6	65.6	69.1	70.1	71.3	70.6	70.8	63.6	55.8	44.4						
NFB 8823. RPM	8000	51.2	58.3	62.7	66.2	67.9	68.8	68.3	68.6	61.1	52.1	40.0						
(924. RAD/SEC)	10000	48.7	57.2	61.8	64.5	65.7	66.8	67.1	66.1	58.8	49.6	38.4						
NO. OF BLADES 15	12500	45.8	54.3	58.5	61.8	63.1	63.1	63.4	62.8	54.1	43.7	28.6						
FAN TIP SPEED	16000	38.4	48.8	50.4	55.3	55.8	56.7	56.9	55.9	46.0	33.5	15.8						
800. FT/SEC	20000	32.5	46.5	46.7	50.2	50.9	51.1	51.9	49.6	39.8	23.7							
	25000	24.8	32.4	38.4	42.2	43.1	42.5	43.0	38.6	28.1	9.8							
	31500	12.8	20.7	25.4	30.3	31.1	31.0	29.8	24.8	11.5								
	40000		2.8	8.3	12.7	13.9	13.3	10.3	2.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.7	73.1	76.3	79.8	80.7	81.7	81.2	80.9	78.2	70.5	60.7						
PNCR		89.7	87.8	90.2	93.8	94.5	95.2	95.1	94.5	89.7	83.2	73.8						

FULL SCALE DATA RECORDING PROGRAM

PROG. DATE - MONDAY 12 MAY 75 RUN 15.1

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES TAKE MEASURED

	RPM	1a. (1.02)	2a. (1.19)	3a. (1.36)	4a. (1.53)	5a. (1.71)	10a. (1.88)	11a. (2.04)	12a. (2.24)	13a. (2.42)	14a. (2.60)	15a. (2.78)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. HZ	100	71.2	75.5	78.4	74.3	75.3	75.2	76.2	77.1	80.1	84.0	89.9							113.1
VEHICLE RUNS	125	77.2	77.3	77.6	77.6	79.5	79.5	79.7	80.9	82.6	84.8	88.8							115.8
CONFIG 22	160	74.5	74.3	74.6	77.6	74.3	78.8	78.9	81.6	84.1	86.3	88.8							115.2
LOC SCHENECTADY	200	74.5	75.3	75.9	77.3	79.5	81.8	81.9	84.6	84.8	87.5	90.5							118.8
DATE 12/13/74	250	77.5	78.8	80.1	81.3	81.5	83.8	84.2	85.4	84.3	87.5	89.8							117.7
RUN 40/0	315	78.2	79.8	80.1	81.8	82.3	82.7	83.2	84.6	85.1	87.8	84.3							117.7
TYPE	400	77.5	78.5	79.6	80.1	80.5	81.5	82.4	83.9	84.3	85.8	86.5							116.6
BAR 29.9 MG	500	75.8	77.5	77.4	78.9	78.4	80.2	82.7	83.4	83.8	84.8	89.8							115.3
(01000. N/M2)	630	77.3	78.5	80.1	81.1	82.3	83.5	84.2	85.4	85.6	85.8	85.3							117.8
TAMB 44. DEG F	800	81.3	81.3	83.4	82.9	84.3	84.3	85.8	86.8	86.6	85.3	86.8							118.5
(282. DEG K)	1000	77.8	80.8	81.4	81.9	83.1	84.5	85.9	86.9	86.2	86.1	83.5							117.8
THET 44. DEG F	1250	77.4	79.8	81.6	83.2	83.3	87.8	88.6	89.6	88.3	85.1	83.8							119.8
(282. DEG K)	1600	77.8	81.1	83.8	84.7	86.2	89.6	90.9	90.9	89.8	86.4	83.8							121.8
MACT 0.39 GM/M3	2000	82.6	82.8	82.1	85.5	86.4	88.8	90.9	90.9	88.8	87.4	91.4	88.8						130.8
(.00039 KG/M3)	2500	78.8	80.8	80.1	83.8	83.7	84.6	84.8	85.8	82.1	80.1	84.5							120.5
NFA 7878. RPM	3150	88.8	86.8	88.1	83.9	84.8	84.8	85.3	86.8	84.3	80.8	85.8							127.3
(825. RAD/SEC)	4000	82.5	89.3	82.3	86.1	87.6	89.3	89.8	88.5	84.5	87.1	88.2							130.3
NFX 7963. RPM	5030	88.2	87.3	88.2	84.8	85.8	86.7	87.2	88.1	84.8	88.3	85.4							128.5
(834. RAD/SEC)	6350	88.3	87.1	88.1	83.8	82.9	88.8	88.7	88.9	83.5	88.5	85.7							128.9
NFB 8023. RPM	8030	78.9	85.2	86.9	91.8	93.6	95.1	96.5	97.9	92.8	84.4	84.5							127.5
(924. RAD/SEC)	10000	78.6	85.5	86.9	91.4	93.7	94.4	96.5	96.9	93.7	88.7	84.5							127.3
NO. OF BLADES 15	12500	78.3	84.2	86.8	91.1	92.8	93.6	95.6	96.7	91.6	87.8	83.2							126.8
FAN TIP SPEED	16000	75.1	80.7	84.1	87.5	87.5	91.2	92.9	94.5	89.9	84.2	80.7							124.5
888. FT/SEC	20000	74.8	80.8	83.3	87.4	89.1	90.4	92.8	94.7	90.4	84.2	80.8							124.8
	25000	79.3	79.1	81.7	86.2	88.2	89.7	92.8	93.5	89.8	86.5	79.5							124.5
	31500	74.3	78.2	80.9	84.7	86.7	88.6	90.2	91.8	87.8	82.9	77.4							123.8
	40000	74.4	76.5	79.2	81.7	83.7	85.2	86.4	86.7	85.6	80.7	76.5							122.6
	50000	76.8	75.9	78.1	79.8	81.2	83.8	86.1	84.8	82.6	79.1	76.5							121.8
	63000	78.6	78.2	78.8	77.6	78.4	79.8	82.8	83.3	80.1	78.8	76.4							122.8
	80000	82.4	79.8	81.7	79.2	79.9	80.9	81.3	81.8	79.8	80.2	79.8							127.4
OVERALL MEASURED																			
OVERALL CALCULATED		93.4	97.7	100.7	104.8	103.4	108.8	107.5	108.5	105.3	101.8	100.5							130.8
	PNDB	105.7	110.9	113.7	117.1	118.5	119.4	120.1	120.9	118.3	114.7	112.2							

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PAGE 3 FULL SCALE DATA RECORDING PROGRAM DATE - MONTH 12 DAY 18 NO. 15.1

MODEL SOUND PRESSURE LEVELS (SPL, LEG, F, 70 PERCENT DEL, PERM, DAY)

ANGLES FROM INLET IN DEGREES (ARC RADIUS)

	Pwr.	5°. (1.00)	6°. (1.19)	7°. (1.36)	8°. (1.53)	9°. (1.70)	10°. (1.88)	11°. (2.06)	12°. (2.24)	13°. (2.42)	14°. (2.60)	15°. (2.78)	0°. 110.	0°. 110.	0°. 110.	0°. 110.	0°. 110.	0°. 1
	5C																	
	63																	
SIDELINE 200. Ft.	8C																	
(60.96 M)	100	48.2	51.3	52.6	52.8	53.4	53.2	53.5	53.1	54.8	57.2	57.6						
VEHICLE GASS	125	54.1	55.6	55.8	55.9	57.3	57.4	56.9	57.8	57.1	57.8	57.2						
CONFIG 22	160	51.3	53.0	54.7	55.0	56.2	55.0	57.1	57.7	56.5	56.3	56.9						
LOC SCHENECTADY	200	51.2	52.8	53.8	55.5	57.6	56.7	56.0	64.5	59.1	59.4	58.4						
DATE 12/13/74	250	54.1	56.2	56.0	59.4	59.5	60.4	61.1	61.2	60.5	59.3	57.2						
RUN 48/6	315	54.7	57.1	56.8	59.6	60.2	60.3	60.0	60.3	59.1	58.6	58.7						
TAPE	400	53.7	55.8	56.4	58.3	58.4	59.0	58.2	58.5	58.2	56.8	55.7						
BAR 29.0 MG	500	52.1	54.7	55.8	56.7	57.6	58.1	58.3	58.8	57.6	56.7	55.9						
(101000. N/M2)	630	53.5	55.6	57.7	58.9	60.8	60.8	60.7	60.7	59.2	58.5	57.9						
TAMB 44. DEG F	800	57.4	59.2	60.8	61.5	61.7	61.4	62.3	62.1	60.6	59.1	58.3						
(282. DEG K)	1000	53.7	56.8	58.7	59.4	60.5	61.0	60.2	61.9	58.8	58.6	58.6						
T-RT 44. DEG F	1250	53.1	56.4	58.8	60.4	62.8	63.9	64.8	64.5	61.4	59.3	58.9						
(280. DEG K)	1600	53.1	57.5	60.8	63.6	65.5	66.3	66.8	66.5	63.4	60.2	59.8						
HACT 0.30 GM/M3	2000	57.8	63.8	66.9	70.5	73.3	73.3	74.6	73.3	69.8	66.9	65.4						
(.000630 KG/M3)	2500	55.9	62.7	65.7	69.9	70.4	70.9	70.4	70.8	66.3	57.3	48.6						
RPA 7878. RPM	3150	55.6	62.6	64.4	69.8	71.4	70.8	70.5	70.8	66.1	58.2	48.8						
(825. RAD/SEC)	4000	56.8	64.4	67.9	72.4	73.7	73.9	73.7	72.8	67.7	59.8	50.8						
RPM 7883. RPM	5000	54.7	62.3	66.4	69.9	71.7	72.1	71.6	71.1	64.7	56.6	46.4						
(826. RAD/SEC)	6300	53.4	61.4	65.1	69.1	70.1	71.1	70.3	71.0	63.1	55.3	44.7						
RPD 8823. RPM	8000	50.8	58.3	62.8	66.8	67.7	68.6	68.9	68.6	60.4	52.1	40.3						
(924. RAD/SEC)	10060	48.7	57.8	61.2	64.9	64.2	64.3	67.2	65.6	58.3	49.3	38.7						
NO. OF BLADES 15	12500	45.8	53.3	58.1	61.6	63.1	63.1	63.7	62.6	53.8	43.8	27.8						
VAN TIP SPEED	16000	38.2	45.9	50.5	54.6	56.2	57.0	56.9	55.7	46.5	33.1	14.8						
600. FT/SEC	20000	32.3	40.8	44.8	49.5	50.9	51.1	51.4	49.6	39.6	23.5							
	25000	24.7	31.8	36.3	41.5	43.2	43.3	42.8	39.7	28.4	10.2							
	31500	11.9	20.1	25.3	30.1	31.7	31.8	29.7	25.8	10.8								
	40000		2.4	8.5	12.3	13.8	12.7	10.9	2.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.4	73.8	76.2	79.6	80.8	81.5	81.3	80.7	76.2	70.5	66.8						
PNLR		66.2	66.4	69.8	93.5	84.7	95.1	93.8	94.4	80.8	83.8	79.2						

PAGE 1 FULL SCALE DATA RETRIEVAL PROGRAM — PAGE, DATE = MONDAY 12 MAY 80 HR. 15.1

MODEL SOUND PRESSURE LEVELS (SPL, DB, RE. 20 MICRONEWTONS/SQ. M, FLAT)

		5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	
RADIAL 17. FT.		80																	
1 S. AI		1:0	64.8	71.6	75.4	78.9	79.5	74.9	73.6	69.7	74.9	79.4	77.8						180.8
VEHICLE SPEED		1:5	68.3	67.3	68.7	67.6	71.0	69.8	69.4	70.7	71.2	73.7	73.8						184.3
CONFIG 22		160	64.5	66.3	66.4	66.9	67.3	69.8	68.7	71.4	72.9	75.4	76.3						184.2
LOC SCHENECTADY		200	65.3	66.6	67.2	68.4	73.5	71.5	72.9	74.7	75.4	77.7	78.3						190.0
DATE 12/13/74		250	67.8	68.1	70.2	71.1	71.5	72.3	73.7	73.8	74.2	76.2	76.3						190.5
RUN 46/7		315	69.8	69.3	70.7	71.9	72.3	73.8	72.9	73.9	74.8	75.9	76.1						190.8
TAPE		400	67.3	69.1	69.7	71.1	72.5	72.5	72.8	74.7	74.8	75.8	76.3						190.8
BAR 29.9 MB		500	66.6	68.3	68.4	69.9	71.3	72.8	73.7	73.9	74.2	74.4	73.3						189.8
101000. N/M2)		630	68.4	70.3	71.2	73.4	74.6	75.6	76.4	77.2	77.7	77.7	79.1						190.9
TAMB 68. DEG F		800	71.9	71.8	73.4	74.2	75.9	76.3	76.4	78.2	78.2	77.2	75.6						110.3
(292. DEG K)		1000	68.6	71.3	73.2	77.9	75.3	74.3	78.2	79.7	80.4	77.9	74.1						110.4
THET 66. DEG F		1250	73.1	75.6	76.9	79.2	81.1	83.1	84.9	86.2	86.9	84.7	79.1						110.6
(292. DEG K)		1600	71.1	74.9	76.7	80.9	81.9	83.9	84.6	85.7	85.8	82.8	76.1						110.3
HACT 0.30 GM/M3		2000	71.6	75.4	76.7	81.9	84.1	84.9	85.1	85.1	84.4	81.8	76.3						110.9
(0.00030 LB/M3)		2500	74.4	79.2	81.6	84.4	86.7	87.6	88.1	88.9	88.4	84.5	80.3						120.6
HFA 5320. RPM		3150	73.4	78.4	80.6	84.1	86.7	87.0	88.4	89.6	90.2	86.2	80.3						120.3
(570. FT/SEC)		4000	72.5	74.6	80.8	84.3	86.4	87.6	89.3	91.8	89.6	84.9	79.5						120.6
HFE 5320. RPM		5000	78.7	78.4	79.7	83.2	85.1	86.5	87.4	88.7	88.3	82.7	77.4						119.8
(584. FT/SEC)		6300	78.3	78.1	78.2	81.6	83.5	85.8	86.2	86.2	87.3	81.8	76.5						118.8
HFB 8023. RPM		8000	68.2	73.3	76.7	80.6	81.9	83.9	85.2	86.7	86.9	84.8	79.6						117.8
(924. FT/SEC)		10000	67.2	72.1	75.7	79.4	81.4	83.7	85.2	86.2	86.8	81.1	76.8						110.8
NO. OF BLADES 15		12500	67.1	70.8	73.6	78.7	80.6	82.8	84.1	85.5	85.5	79.5	74.7						110.9
FAN TIP SPEED		16000	64.1	68.8	70.6	76.1	77.3	79.8	81.1	84.1	83.8	78.8	73.7						113.8
682. FT/SEC		20000	63.6	66.8	69.6	75.7	75.8	78.4	80.8	83.2	82.7	78.1	73.2						113.8
		25000	64.3	66.2	68.3	74.8	74.4	76.3	78.3	81.5	80.8	76.4	68.8						112.1
		31500	63.3	65.5	67.4	74.0	73.4	75.0	77.7	79.6	79.5	73.5	67.8						112.1
		40000	63.0	64.8	66.2	73.7	71.8	73.2	75.8	78.7	77.2	71.1	64.3						111.4
		50000	66.4	64.8	67.2	74.8	68.5	70.8	73.1	73.1	73.8	69.2	64.8						111.1
		63000	69.1	66.7	68.9	68.1	66.3	69.5	70.8	69.1	70.4	66.8	66.4						111.8
		80000	72.5	69.6	71.7	69.3	69.9	70.9	71.3	71.1	70.4	70.8	69.9						117.8
OVERALL MEASURED																			
OVERALL CALCULATED			64.2	67.7	90.1	93.4	95.1	96.8	97.8	99.1	99.8	94.4	90.7						130.8
			96.8	101.8	103.3	106.4	108.4	109.5	110.9	112.2	111.9	107.8	103.5						

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 12 DAY 16 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
SIDELINE 200. FT. 80																	
(80.96 M) 100	41.7	46.3	53.7	54.3	53.4	52.7	50.7	45.9	45.4	47.5	46.2						
VEHICLE R-RS 125	44.9	45.3	46.8	46.0	49.3	48.9	46.7	48.8	45.7	48.9	44.2						
CONFIG 22 160	41.3	43.2	44.5	45.2	45.5	45.8	46.8	47.4	47.1	47.5	44.5						
LOC SCHENECTADY 200	42.8	44.1	45.2	46.9	48.6	49.2	50.0	50.6	49.7	49.9	46.2						
DATE 12/13/74 250	43.6	45.5	48.1	49.2	49.6	49.9	50.6	49.7	48.3	47.9	44.0						
RUN 40/7 315	44.5	46.7	48.5	49.9	50.2	50.6	49.8	49.6	49.0	47.5	43.5						
TAPE 400	43.7	46.3	47.4	48.1	49.9	50.0	49.7	50.3	48.8	46.8	41.5						
BAR 29.9 HG 500	42.9	45.5	46.1	47.8	49.1	49.4	50.3	49.4	47.9	45.6	40.2						
(01000. N/M2) 630	44.5	47.4	48.7	51.2	52.2	52.8	53.0	52.5	51.3	48.7	41.6						
TAMB 46. DEG F 800	47.9	48.7	51.4	51.8	53.4	53.5	54.8	54.4	52.5	48.4	41.8						
(282. DEG K) 1000	44.5	48.1	50.5	51.4	52.7	53.3	54.4	54.7	53.7	48.4	39.9						
TWET 44. DEG F 1250	48.9	52.2	54.1	56.6	56.4	60.0	61.0	61.0	60.0	56.9	44.5						
(280. DEG K) 1600	46.7	51.3	53.7	57.2	59.0	60.0	60.6	60.3	58.7	51.9	41.0						
HACT 6.39 GM/M3 2000	46.9	51.6	55.5	58.8	61.1	61.1	60.8	59.8	56.0	50.5	40.7						
(.00639 KG/M3) 2500	49.5	55.2	58.3	61.7	63.4	64.0	64.6	64.1	62.7	53.7	44.2						
NFA 5520. RPM 3150	48.1	54.2	57.0	60.7	63.2	63.6	63.9	63.4	62.0	52.8	43.3						
(578. RAD/SEC) 4000	46.8	53.9	56.7	60.5	62.5	63.2	64.0	64.3	60.4	52.7	41.3						
NFK 5570. RPM 5000	44.7	51.6	55.4	59.0	60.9	61.9	61.9	61.7	59.1	46.9	38.5						
(584. RAD/SEC) 6300	43.5	49.4	53.1	56.9	58.6	59.6	60.1	60.3	57.0	47.5	35.5						
NF3 8023. RPM 8000	40.0	46.4	50.8	54.8	55.9	57.4	57.6	57.4	54.9	44.5	31.3						
(924. RAD/SEC) 10000	37.3	43.6	48.0	52.1	53.9	55.6	55.9	54.9	52.4	41.7	27.2						
NO. OF BLADES 15 12500	34.6	39.9	43.9	48.1	50.9	52.2	52.2	51.4	47.7	35.8	19.4						
FAN TIP SPEED 16000	27.3	33.2	37.8	42.9	43.9	45.5	45.2	45.2	39.6	26.9	5.8						
482. FT/SEC 20000	21.1	26.9	31.1	37.8	37.7	39.2	38.5	38.2	31.9	15.4							
25000	13.8	19.1	22.8	30.1	29.4	29.9	29.1	26.7	19.5	0.1							
31500	0.9	7.4	11.9	19.4	18.4	19.8	17.2	12.8	2.7								
40000				4.4	1.1	0.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.6	63.3	66.2	69.3	71.1	71.8	72.2	71.9	69.9	63.1	55.7						
PNLB	71.3	76.6	79.6	82.8	84.8	85.4	85.8	85.7	83.6	79.8	68.6						

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ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONDAY 3 SAT 10 MN. 12.4

NOISE SOURCE PRESSURE LEVELS (DB, REF. TO .73 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PNLTM	50. (1.02)	60. (1.17)	70. (1.36)	80. (1.55)	100. (1.75)	110. (2.05)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PNL
	5U																		
	0J																		
RADIAL 17. FT.	0U																		
(5. M)	1UU	65.4	71.5	75.9	77.6	76.3	75.4	64.9	71.9	75.4	77.4								105.8
VEHICLE N-55	145	66.0	67.3	70.7	69.1	69.3	69.7	71.2	73.2	73.7	75.4								104.6
CONFIG 27	190	65.3	65.5	68.2	67.4	68.0	72.7	71.2	73.7	75.4	76.1								104.7
LOC SCHENECTADY	200	65.3	65.5	66.4	67.9	71.3	75.4	74.2	75.7	77.7	77.9								106.4
DATE 1/8/75	250	67.3	68.0	69.2	70.8	72.5	74.7	73.7	74.4	75.7	76.1								108.5
RUN 43/4	315	68.0	69.2	70.4	72.1	73.0	74.9	74.2	74.9	76.2	75.9								107.1
TAPE	400	66.6	67.7	68.9	71.2	72.8	73.7	74.2	75.4	74.9	73.8								106.4
BAR 29.9 MG	500	65.3	66.8	67.9	70.7	72.3	73.9	73.4	74.2	75.2	73.1								107.6
(99600. N/M2)	630	66.1	69.6	71.4	73.2	75.1	76.4	77.2	76.2	76.0	74.6								109.3
TAMB 51. DEG F	800	70.1	71.6	74.9	74.2	76.1	79.4	78.4	79.2	78.2	74.4								110.2
(284. DEG K)	1000	66.6	70.7	72.9	73.9	76.6	78.9	79.2	80.7	79.2	73.9								110.6
TDET 47. DEG F	1250	73.4	76.6	77.9	81.2	85.8	88.7	88.7	89.2	85.4	84.9								119.1
(281. DEG K)	1600	72.9	76.3	76.7	81.0	84.6	86.9	86.7	86.9	83.2	77.4								117.6
HACT 7.25 GM/M3	2000	73.1	76.1	77.9	81.3	84.1	85.6	85.1	85.4	81.7	76.1								116.6
(.00725 KG/M3)	2500	82.4	84.6	87.9	88.3	91.9	92.6	91.6	94.7	94.5	87.9								126.2
NFA 5487. RPM	3150	77.9	81.1	83.4	84.6	89.3	90.6	89.6	94.9	89.9	83.6								122.7
(574. RAD/SEC)	4000	76.3	83.0	83.0	86.5	90.8	91.5	93.6	91.3	85.9	81.3								123.0
NFA 5530. RPM	5000	73.7	78.2	84.5	85.0	89.7	91.9	90.7	94.5	85.9	84.2								122.8
(579. RAD/SEC)	6300	72.6	78.7	79.6	84.4	90.7	91.2	91.7	92.3	85.3	81.6								122.5
NFD 8823. RPM	8000	78.4	74.4	78.2	83.8	87.8	88.2	88.9	88.9	84.8	79.1								119.8
(924. RAD/SEC)	10000	88.8	72.7	78.4	82.1	86.7	87.7	88.1	89.2	83.5	77.8								119.3
NO. OF BLADES 15	12500	67.8	70.8	74.7	80.4	84.8	86.8	86.2	87.9	82.1	78.6								118.4
FAN TIP SPEED	16000	65.9	67.2	71.0	78.5	81.7	83.8	85.8	84.7	78.4	73.4								115.9
478. FT/SEC	20000	63.5	65.8	69.2	75.1	80.1	82.5	84.1	84.9	78.2	71.9								115.1
	25000	63.2	65.1	67.8	72.9	77.1	79.8	81.2	81.5	75.8	69.3								112.8
	31500	62.9	63.9	67.5	71.8	77.0	78.8	79.9	80.8	74.4	67.4								112.9
	40000	64.8	63.9	66.8	69.8	74.1	75.9	77.1	77.5	72.2	63.4								111.5
	50000	66.4	65.3	67.8	68.6	71.7	74.8	73.4	73.8	70.9	61.8								111.8
	63000	69.4	68.8	69.8	68.8	70.5	71.1	69.4	69.8	68.9	61.6								112.2
	80000	73.2	69.4	72.8	69.8	71.9	72.1	71.3	70.9	71.8	62.7								116.8
OVERALL MEASURED																			
OVERALL CALCULATED		87.1	90.2	92.5	94.8	99.4	100.7	100.7	103.7	98.4	93.2								132.8
	PNLM	101.3	104.2	106.8	108.1	112.3	113.8	113.8	117.8	112.8	107.4								

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = RUNIN 3 SAT 18 FN. 12.4

POWER SOUND PRESSURE LEVELS (DB. REF. P. 20 MICRONT NEW. M&M. WAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.86)	150. (2.70)	0. (10.	0.)10.	0.)10.	0.)10.	0.)10.	0.)10.	0.)10.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	42.7	49.3	54.2	50.1	54.0	52.7	45.1	40.6	47.0	48.6							
VEHICLE R-55	125	45.0	44.9	46.0	48.5	47.2	46.9	47.3	47.2	45.9	43.8							
CONFIG 27	160	41.0	43.3	44.3	45.7	45.0	49.8	47.2	48.1	47.5	44.3							
LOC SCHENECTADY	200	42.3	43.0	44.4	48.1	49.3	52.5	50.1	50.0	49.0	45.0							
DATE 1/8/75	250	43.9	45.4	47.1	49.7	50.2	51.6	49.5	48.8	47.4	43.0							
RUN 43/4	315	44.3	46.0	48.2	50.2	50.0	51.6	49.8	49.0	47.7	43.3							
TAPE	400	42.9	45.0	48.7	49.1	50.3	50.4	49.0	49.3	48.3	46.8							
BAR 29.9 MG	500	41.0	43.9	45.8	48.5	49.7	50.8	48.9	47.9	48.4	46.0							
(99900. N/M2)	630	44.3	48.8	49.0	51.9	52.3	55.0	52.5	51.8	48.9	41.4							
TAMB 51. DEG F	800	48.1	48.7	50.4	51.8	53.2	55.8	53.8	54.8	48.9	46.8							
(284. DEG K)	1000	44.9	47.5	50.2	51.4	53.8	55.2	54.2	53.9	49.7	39.7							
THET 47. DEG F	1250	49.1	53.4	55.1	58.8	62.7	64.8	63.5	62.2	55.4	48.3							
(281. DEG K)	1600	48.4	52.7	55.7	58.2	61.3	64.8	61.3	59.7	53.1	42.3							
HACT 7.29 GM/M3	2000	48.4	52.3	54.7	58.3	60.8	61.3	59.8	57.9	51.2	40.9							
(.00725 KG/M3)	2500	57.5	60.9	64.5	63.2	68.2	68.1	65.8	71.8	63.7	51.7							
NFA 5407. RPM	3150	52.8	58.8	57.7	61.2	65.4	65.8	63.4	60.7	58.1	48.9							
(574. NAU/SEC)	4000	50.8	58.3	57.3	64.7	68.4	68.2	68.3	64.5	53.7	43.1							
NFR 5530. RPM	5000	47.7	53.3	58.2	60.9	65.1	68.4	63.8	63.3	58.2	41.3							
(579. NAU/SEC)	6300	45.9	51.8	54.8	57.8	65.3	64.8	63.8	62.8	51.2	40.8							
NFB 8823. RPM	8000	42.2	47.5	54.6	57.7	61.1	60.6	59.8	56.9	47.7	38.8							
(924. NAU/SEC)	10000	38.7	44.2	48.7	54.8	58.5	58.4	58.8	54.9	44.2	28.8							
NO. OF BLADES 18	12500	35.8	39.7	44.8	50.8	54.3	54.9	54.1	50.1	38.3	28.8							
FAN TIP SPEED	16000	28.2	32.5	37.4	43.3	47.4	47.9	48.2	41.3	27.4	7.8							
479. FT/SEC	20000	21.8	25.8	30.7	37.2	40.8	41.1	39.1	34.1	17.8								
	25000	12.8	17.8	22.2	28.2	38.7	38.5	27.3	28.1	1.4								
	31500	0.5	5.8	11.9	17.8	28.1	18.1	13.2	4.8									
	40000				0.4	1.8												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.7	69.9	68.7	78.7	74.7	78.1	73.5	78.1	67.8	57.4							
	PNLS	78.1	88.8	83.2	84.4	88.3	88.7	87.3	88.5	81.7	78.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 HR. 11.4

MODEL SOUND PRESSURE LEVELS (99. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	70.8	74.0	71.9	74.6	76.0	75.0	75.7	74.9	73.4	77.9	80.8							109.2
125	70.3	70.3	71.9	71.1	73.3	72.5	73.7	75.9	75.7	77.7	80.3							108.2
160	68.0	69.3	69.4	70.6	70.8	71.5	75.2	78.9	77.2	79.7	84.8							108.4
200	68.0	68.5	69.4	70.4	72.5	74.3	77.2	78.7	78.2	80.7	82.1							109.9
250	70.0	71.0	72.4	73.9	74.3	74.8	76.7	77.7	78.2	79.7	84.3							110.1
315	71.5	72.5	73.7	75.1	75.8	76.5	79.4	79.4	78.7	80.4	80.3							111.1
400	70.3	70.7	71.7	73.2	74.0	75.0	78.2	78.2	77.7	78.7	78.3							109.0
500	68.1	69.3	71.2	73.4	74.3	74.8	77.4	78.7	77.2	78.2	77.1							109.0
630	70.4	72.0	73.4	75.2	76.3	77.6	79.2	79.7	80.4	80.7	78.1							111.4
800	72.1	73.8	75.4	76.2	76.6	78.3	79.7	81.2	81.2	79.9	77.8							112.1
1000	71.4	73.2	75.2	75.9	77.3	78.8	80.4	81.7	82.4	80.2	78.6							112.8
1250	73.1	75.8	77.2	79.2	81.1	82.8	84.4	85.4	85.7	82.2	78.3							115.9
1600	80.9	84.0	85.7	89.3	90.4	91.4	91.4	92.4	91.9	90.0	81.8							123.7
2000	78.6	79.8	80.9	84.3	85.6	87.1	89.1	89.1	88.2	83.2	79.1							119.8
2500	78.1	80.6	82.8	85.8	87.9	90.1	90.8	90.9	91.4	85.2	81.8							121.9
3150	82.6	85.3	86.4	91.8	91.4	93.6	96.1	96.1	105.7	96.0	94.0							130.7
4000	77.0	82.3	85.3	89.5	90.8	93.3	94.0	93.2	93.3	87.4	83.8							124.8
5000	80.7	86.5	92.2	96.0	93.1	100.0	97.2	94.7	94.5	89.4	84.4							129.8
6300	77.3	81.8	85.2	89.1	90.2	93.2	94.9	94.7	95.8	88.3	84.8							128.7
8000	78.9	80.2	84.9	87.6	89.4	92.9	92.7	93.8	92.1	87.8	82.1							128.2
10000	74.1	78.4	83.7	87.6	90.6	95.9	93.2	93.4	93.2	87.6	82.8							128.4
12500	72.1	75.9	80.2	85.1	87.8	91.1	92.0	93.0	91.2	85.4	80.4							123.2
16000	68.6	72.5	76.8	81.5	83.7	87.2	89.3	90.3	88.8	82.2	77.7							120.4
20000	67.0	71.1	75.7	79.7	82.0	84.8	87.3	88.1	87.1	81.5	76.4							119.8
25000	65.3	68.8	73.4	77.9	80.1	82.9	85.2	87.2	85.3	79.8	73.7							118.8
31500	65.8	67.9	71.8	76.7	79.1	81.8	84.4	85.8	84.8	78.7	71.8							117.7
40000	64.8	66.2	70.1	73.9	76.6	78.9	81.3	82.4	81.8	76.3	67.9							116.2
50000	67.0	65.6	69.4	71.2	73.6	75.8	78.5	78.8	77.8	73.7	67.2							114.7
63000	66.6	66.5	69.8	69.1	70.9	71.9	73.2	72.5	72.3	70.1	67.6							113.6
80000	73.1	70.0	71.9	70.2	70.8	71.3	72.2	71.2	71.0	71.6	70.2							116.1
OVERALL MEASURED																		
OVERALL CALCULATED	69.5	93.1	96.5	100.4	100.8	104.5	104.3	104.3	107.8	100.3	97.3							130.6
PNDB	103.5	106.7	110.7	114.3	113.4	110.8	117.1	117.0	122.4	115.1	112.8							

MODEL SOUND PRESSURE LEVELS (90. LEG. TO 70 PERCENT REL. MON. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0.)(0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.
50																	
63																	
80																	
100	47.7	51.0	50.2	53.1	54.4	53.0	53.0	51.1	48.1	50.3	49.4						
125	47.1	47.9	50.1	49.5	51.6	50.4	50.9	52.1	50.2	49.9	48.7						
160	44.6	46.0	47.5	48.9	49.8	49.3	52.3	51.9	51.0	51.7	49.8						
200	44.7	46.0	47.4	48.6	50.6	52.0	54.2	54.0	52.5	52.0	50.0						
250	46.6	48.4	50.3	52.0	52.3	52.4	55.0	53.5	52.3	51.4	48.9						
315	48.0	49.8	51.5	53.2	53.7	54.1	56.3	55.1	52.7	51.7	47.7						
400	46.7	48.0	49.4	51.1	51.9	52.5	54.9	53.8	51.6	50.1	45.5						
500	44.4	46.4	48.8	51.3	52.1	52.2	54.1	52.2	50.9	49.4	43.9						
630	46.5	49.0	51.0	53.9	54.0	54.8	55.7	55.0	54.0	51.7	44.0						
800	48.1	50.7	52.9	53.8	54.1	55.5	56.1	56.4	54.0	50.7	44.0						
1000	47.2	50.0	52.5	53.4	54.7	55.8	56.7	56.7	55.7	51.7	42.4						
1250	48.9	52.4	54.3	56.0	56.4	59.7	60.5	60.3	56.7	52.4	43.0						
1600	50.4	53.5	52.7	56.5	57.5	58.1	57.3	57.1	54.7	50.9	40.8						
2000	51.9	50.1	57.7	61.3	62.6	63.6	64.0	63.0	59.7	52.0	43.0						
2500	51.2	50.0	59.3	62.7	64.7	66.4	66.1	65.1	63.7	54.4	45.4						
3150	57.4	61.1	62.7	66.4	67.9	69.6	71.3	69.9	77.5	64.0	57.1						
4000	51.3	57.0	61.2	65.7	66.7	68.9	68.7	66.5	64.5	55.6	44.0						
5000	54.7	61.5	67.9	72.0	68.9	75.3	71.6	67.7	65.3	56.7	45.5						
6300	58.4	56.1	69.1	64.4	65.3	67.8	66.6	66.6	65.5	54.2	43.0						
8000	47.8	53.3	58.8	61.7	63.4	66.3	65.1	64.6	60.1	50.7	37.0						
10000	44.2	49.9	56.8	60.3	63.2	67.8	63.9	62.1	58.9	48.2	33.7						
12500	39.5	45.8	50.3	55.6	58.1	60.6	60.2	58.8	53.4	41.8	29.1						
16000	31.7	37.7	43.8	48.4	50.4	53.8	53.4	51.4	44.8	31.1	21.8						
20000	24.5	31.1	37.3	41.8	43.9	46.8	45.9	45.1	38.3	28.8							
25000	16.7	21.6	28.8	33.2	35.1	38.8	38.8	33.4	23.9	9.2							
31500	8.6	9.9	18.2	22.1	24.1	24.9	23.9	18.7	7.8								
40000				4.8	8.7	8.4	3.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.8	68.5	72.2	76.2	76.1	79.3	78.2	76.8	76.6	68.9	61.2						
PNdB	78.1	82.3	86.6	90.5	89.4	93.6	92.1	90.6	84.1	83.0	75.0						

BASELINE 200. FT. (60.96 M)
VEHICLE R-SS
CONFIG gen 27
LOC SCHENECTADY
DATE 1/8/75
RUN 43/5
TAPE
BAR 29.9 MG (100800. N/M2)
TAMB 50. DEG F (283. DEG K)
TWET 46. DEG F (281. DEG K)
HACT 0.96 GM/M3 (.000096 KG/M3)
NFA 6288. RPM (656. RAD/SEC)
NFK 6321. RPM (662. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 547. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

PROC. DATE = MONTH 3 DAY 10 YR. 74.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	70.7	73.0	73.9	72.9	73.6	73.3	73.2	73.2	70.9	81.7	84.0							110.0
VEHICLE R-55 125	75.0	80.8	81.2	79.1	80.3	77.3	75.7	77.4	79.9	81.7	84.3							113.6
CONFIG 1QF-27 160	72.2	72.8	72.9	74.1	74.3	74.3	76.7	76.2	80.7	83.2	84.3							111.6
LOC SCHENECTADY 200	72.7	70.7	72.4	73.9	75.3	77.5	78.4	80.4	81.7	84.7	86.1							113.0
DATE 1/8/75 250	74.7	74.5	75.9	77.1	77.6	78.5	79.9	80.2	81.9	83.9	84.8							113.4
RUN 43/6 315	75.7	76.2	76.7	78.1	78.3	79.5	80.7	80.9	82.2	83.7	84.1							113.9
TAPE 400	74.9	74.0	75.2	76.2	76.8	78.0	79.2	79.9	80.9	82.4	82.8							112.4
BAR 29.9 MG 500	72.3	72.3	73.9	75.9	76.8	78.8	78.9	79.4	80.4	81.7	81.1							111.8
(100000. N/M2) 630	74.3	74.8	76.2	78.7	79.1	80.8	81.9	82.4	83.2	83.0	81.1							114.2
TAMB 50. DEG F 800	77.1	76.0	77.7	78.7	79.1	80.8	82.9	83.4	83.7	82.7	81.1							114.8
(283. DEG K) 1000	74.6	75.5	77.7	78.4	79.6	81.8	83.2	84.4	84.2	81.9	79.3							115.8
THET 46. DEG F 1250	75.4	77.5	78.9	80.7	82.8	84.3	85.9	86.7	86.2	82.5	79.6							117.2
HACT 6.96 GM/M3 1600	78.9	83.8	86.2	90.0	92.1	94.6	94.8	92.2	91.9	87.0	83.1							125.1
(.00898 KG/M3) 2000	81.0	84.6	88.9	91.0	91.6	94.9	95.6	93.8	92.7	87.5	84.1							125.8
NFA 7094. RPM 2500	78.8	82.8	86.4	88.8	89.7	91.4	92.9	92.8	91.2	86.0	82.1							123.5
(739. RAD/SEC) 3150	80.0	85.6	88.9	92.6	94.4	94.3	97.1	96.6	103.7	93.7	90.8							129.9
NFK 7116. RPM 4000	81.5	86.0	89.5	93.8	95.1	95.8	98.0	97.8	104.6	94.4	90.7							130.4
(745. RAD/SEC) 5000	83.2	91.7	94.8	97.8	102.8	100.8	100.2	100.2	96.5	91.9	87.1							132.3
NFB 8823. RPM 6300	80.2	85.8	88.4	93.6	98.4	98.8	97.7	99.8	98.6	91.8	86.7							126.9
(924. RAD/SEC) 8000	79.4	83.4	87.7	92.8	94.8	94.9	96.7	98.4	94.6	90.5	85.8							126.8
NO. OF BLADES 18 10000	78.4	82.7	87.7	94.1	93.6	96.2	96.7	97.4	95.8	89.8	85.5							126.2
FAN TIP SPEED 12500	78.8	80.4	84.7	90.4	92.8	93.8	95.3	96.5	93.4	87.9	83.4							126.6
810. FT/SEC 16000	76.5	77.8	81.3	86.5	88.7	90.5	93.1	94.3	90.2	85.2	80.7							124.1
20000	74.8	75.3	80.2	84.4	87.8	89.3	92.3	93.9	90.1	84.8	79.7							123.8
25000	73.7	74.1	78.1	82.9	85.1	87.7	90.4	92.2	89.8	83.3	77.7							122.8
31500	72.7	71.9	76.8	81.9	84.1	86.6	88.4	90.7	87.9	82.4	75.8							122.2
40000	73.3	69.9	74.3	79.4	81.1	83.9	86.0	87.1	84.8	79.3	73.9							120.7
50000	75.7	67.8	72.4	76.7	78.1	80.5	83.3	83.2	80.9	77.2	69.8							119.3
63000	79.8	66.7	70.5	74.1	73.1	75.4	77.5	75.8	74.8	72.6	66.6							117.8
80000	83.1	70.2	71.9	70.7	71.3	72.3	73.0	72.7	71.8	71.8	70.5							121.9
OVERALL MEASURED																		
OVERALL CALCULATED	92.7	96.5	99.3	103.4	106.4	106.2	107.5	107.9	106.8	102.8	98.8							130.4
PWL	105.8	110.7	113.1	116.8	120.3	119.2	120.0	120.8	122.3	115.8	112.4							

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OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS 150. DEG. F, 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.08)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.7	50.0	52.2	51.3	52.1	51.2	50.5	49.4	51.0	54.0	53.2						
VEHICLE Q-SS	125	51.9	54.4	55.3	57.5	54.0	55.2	52.9	53.0	54.5	53.9	52.7						
CONFIG FOR 2-7	160	49.C	50.3	51.0	52.4	53.5	52.1	53.0	54.2	55.1	55.2	54.5						
LOC SCHENECTADY	200	49.4	48.3	50.4	52.1	53.4	55.2	55.5	56.3	56.0	56.0	54.0						
DATE 1/8/75	250	51.3	51.9	53.8	55.2	55.8	56.2	56.9	56.0	56.1	55.6	52.5						
RUN 43/6	315	52.2	53.6	54.5	56.2	56.2	57.1	57.5	56.0	56.2	55.2	51.8						
TAPE	400	50.9	51.2	52.9	54.1	56.7	55.5	55.9	55.5	54.8	53.8	49.7						
BAR 29.0 HG	500	48.8	49.4	51.6	53.8	54.8	55.4	55.6	54.9	54.2	52.9	47.9						
(98848. N/M2)	630	50.5	51.8	53.7	56.4	56.7	57.8	56.5	57.8	56.8	53.9	47.8						
TAMB 50. DEG F	800	53.1	52.9	55.1	56.3	56.8	56.8	59.3	58.6	57.1	53.4	47.3						
(283. DEG K)	1000	50.7	52.3	55.8	55.9	57.0	56.6	59.4	59.5	57.4	52.4	45.2						
TWET 40. DEG F	1250	51.1	54.2	56.1	58.1	59.8	61.2	62.0	61.5	58.2	52.7	45.8						
(281. DEG K)	1600	55.4	60.2	63.2	67.2	69.3	71.3	70.6	66.8	64.7	58.9	48.8						
HACT 6.96 GM/M3	2000	56.9	60.8	63.7	66.1	68.8	71.4	71.3	68.1	65.2	57.8	48.8						
(.00696 KG/M3)	2500	53.7	58.9	61.6	65.7	66.4	67.7	68.4	67.1	63.4	55.2	45.9						
NFA 7894. RPM	3150	58.4	61.3	65.2	69.2	70.9	70.4	72.3	70.4	70.9	62.3	53.1						
(739. RAD/SEC)	4000	59.8	61.3	65.5	70.0	71.2	71.4	72.7	70.3	74.7	62.2	52.8						
NFK 7116. RPM	5000	57.2	60.8	64.7	73.0	70.7	75.3	74.6	73.2	66.3	59.2	48.2						
(745. RAD/SEC)	6300	53.4	60.1	63.4	68.9	71.6	70.0	71.3	71.0	64.7	57.7	45.7						
NFB 6823. RPM	8000	51.2	56.5	61.3	67.0	68.6	68.3	69.1	69.1	62.4	54.4	41.5						
(926. RAD/SEC)	10000	48.4	54.2	60.0	66.8	66.2	66.1	67.4	66.1	64.0	50.4	38.7						
NO. OF BLADES 18	12500	44.3	49.5	54.8	60.8	62.3	63.4	63.4	62.3	59.7	44.1	28.1						
FAN TIP SPEED	16000	37.7	42.2	47.7	53.4	55.4	56.2	57.1	55.4	48.8	34.1	16.8						
810. FT/SEC	20000	31.3	35.4	41.8	48.5	48.9	50.1	50.9	48.9	39.3	24.1							
	25000	23.2	28.8	32.7	38.2	40.1	41.3	41.3	38.4	27.7	9.8							
	31500	16.3	13.9	21.8	27.3	29.1	29.7	27.9	24.8	11.1								
	40000			3.8	10.8	11.2	11.4	8.8	1.2									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED	PWL	66.3	71.7	74.6	78.8	81.8	81.8	81.2	79.8	79.8	69.8	63.3						
	PWL	70.4	66.1	69.8	82.8	86.3	84.8	84.7	83.3	84.8	83.8	78.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 10 HR. 11.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
50																		
63																		
80																		
100	71.2	73.2	74.6	75.3	75.6	76.5	76.9	76.9	80.3	84.6	88.5							113.2
125	75.7	77.4	78.1	77.6	78.0	78.2	78.7	80.6	82.6	84.3	88.0							114.4
160	74.7	76.4	76.4	77.6	77.5	78.2	80.2	81.4	84.3	88.8	88.5							119.2
200	74.5	74.9	75.6	77.3	79.3	81.0	81.9	83.8	85.3	87.8	89.5							116.4
250	77.5	77.9	78.9	80.1	81.0	81.7	83.9	84.4	85.8	87.3	88.8							117.1
315	78.2	79.2	79.8	81.8	81.8	82.5	83.4	84.4	85.8	86.5	87.8							117.1
400	77.3	77.4	77.9	79.3	80.3	81.5	82.4	83.4	84.6	85.8	88.3							115.8
500	75.3	75.9	76.9	78.9	79.5	80.8	82.4	82.9	84.1	84.8	85.3							118.1
630	76.8	78.2	79.4	80.9	82.1	83.3	84.7	85.4	85.8	85.3	84.8							117.8
800	79.3	79.9	80.9	82.4	82.8	84.0	85.2	86.4	86.3	85.1	84.8							117.7
1000	77.1	78.4	79.8	81.4	82.1	84.0	85.9	86.8	86.3	83.8	83.3							117.4
1250	78.4	80.0	81.1	83.2	84.8	86.3	87.8	88.4	88.3	84.1	83.3							119.2
1600	79.6	82.7	84.4	86.0	86.4	89.6	90.9	91.1	90.1	84.4	82.3							122.1
2000	86.1	89.3	90.8	94.2	95.8	98.8	100.4	100.1	97.9	91.1	89.0							130.4
2500	82.1	87.8	88.4	91.5	93.2	94.8	96.1	95.3	93.4	87.4	84.8							120.8
3150	82.3	87.3	89.3	93.8	95.2	96.1	96.3	96.8	96.1	89.8	87.2							126.8
4000	86.0	92.2	94.0	97.3	97.8	100.5	104.0	107.2	109.3	101.3	98.9							136.6
5000	83.2	88.4	91.2	95.8	97.8	98.5	100.4	99.4	96.9	91.8	87.1							130.5
6300	84.8	91.8	93.9	97.1	101.9	104.9	103.9	102.2	97.0	93.8	89.2							134.4
8000	84.1	91.1	96.1	102.1	99.4	101.1	101.2	100.9	96.8	93.2	89.0							133.3
10000	81.9	87.9	92.4	96.8	97.2	99.4	101.2	100.4	97.4	92.2	87.7							131.4
12500	80.6	86.8	90.5	94.6	96.5	98.8	100.0	100.9	96.4	91.8	86.7							131.2
16000	77.6	82.2	86.6	90.5	93.2	94.7	96.0	97.6	93.7	88.1	83.9							127.9
20000	77.0	81.3	86.0	90.1	91.8	94.8	96.5	98.4	93.6	87.9	83.9							128.4
25000	75.5	79.8	83.9	88.7	90.1	92.9	95.7	97.8	93.2	87.4	82.2							127.7
31500	75.2	79.4	82.3	86.9	89.1	91.8	93.7	96.8	92.1	85.9	80.4							127.8
40000	75.4	77.2	79.9	84.4	86.2	88.6	91.3	91.8	89.3	83.4	78.4							128.5
50000	76.6	75.7	79.8	81.3	83.0	85.9	87.9	87.6	85.0	81.9	76.3							124.8
63000	79.2	78.6	78.9	78.9	80.5	82.8	83.1	81.7	80.4	78.6	77.5							123.1
80000	82.9	78.5	81.6	79.7	80.1	81.1	81.8	81.0	80.5	80.7	80.0							127.7
OVERALL MEASURED																		
OVERALL CALCULATED	95.6	99.7	103.3	106.8	108.2	110.3	111.4	112.8	111.3	105.1	103.8							
PNDB	109.1	113.1	116.3	119.4	120.3	122.7	123.8	125.8	124.1	119.8	117.8							143.8

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 YR. 11.0

MODEL SCUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	48.2	50.9	52.9	53.8	54.1	54.8	54.2	53.1	55.0	50.9	57.1						
125	52.0	55.1	56.3	55.9	56.3	56.1	55.9	56.0	57.1	56.5	56.4						
160	51.5	54.0	54.5	55.9	55.7	56.0	57.3	57.4	58.0	58.0	56.7						
200	51.2	52.4	53.0	55.5	57.4	58.7	59.0	59.5	59.6	59.7	57.4						
250	54.1	55.3	56.0	56.2	59.0	59.4	60.9	60.2	60.0	56.6	56.4						
315	54.7	56.5	57.5	59.6	59.7	60.0	60.3	60.1	59.9	58.1	55.2						
400	53.7	54.7	55.6	57.3	58.1	59.0	59.2	59.0	58.5	56.9	53.4						
500	51.6	53.1	54.5	56.7	57.3	58.1	59.1	58.4	57.9	56.0	52.2						
630	53.0	55.2	56.9	58.6	59.7	60.5	61.2	60.7	59.5	58.3	51.4						
800	55.4	56.9	58.3	60.0	60.1	61.2	61.8	61.8	59.8	55.0	50.0						
1000	53.3	55.2	56.9	58.9	59.5	61.1	62.2	61.7	59.6	54.3	49.1						
1250	54.1	56.6	58.3	60.6	62.1	63.2	63.8	63.2	61.4	54.3	48.7						
1600	55.1	59.2	61.4	65.2	65.5	66.3	66.8	65.8	62.9	54.2	47.2						
2000	61.4	65.6	67.4	71.3	72.6	73.1	70.1	74.5	70.3	60.6	53.4						
2500	57.2	63.1	65.8	68.4	69.9	71.2	71.8	69.5	65.8	56.5	48.8						
3150	57.1	63.0	65.7	70.4	71.8	72.1	71.5	70.8	67.9	58.2	50.3						
4000	62.3	67.5	69.9	73.4	73.9	74.1	74.7	68.5	68.4	59.1	50.7						
5000	57.2	63.5	66.9	70.9	73.7	73.8	74.9	72.4	66.7	58.3	48.2						
6300	57.9	65.3	68.8	72.3	77.1	79.5	77.8	74.3	66.8	59.3	48.2						
8000	56.8	64.2	72.8	78.2	73.4	74.5	73.8	71.8	64.8	58.8	44.8						
10000	52.8	59.4	64.7	67.5	69.7	71.3	71.9	69.1	63.1	52.8	38.9						
12500	46.8	55.7	60.5	65.1	68.8	68.4	68.2	66.3	58.8	47.7	31.3						
16000	48.7	47.5	52.9	57.4	59.9	60.5	60.7	58.9	53.3	37.8	17.7						
20000	34.5	41.4	47.8	52.2	53.7	55.6	55.2	53.4	42.8	27.2	3.8						
25000	26.9	32.8	38.5	44.8	45.1	46.5	46.8	43.1	31.9	12.9							
31500	12.8	21.3	28.8	32.3	34.1	35.8	33.2	28.2	15.3								
40000		3.1	9.2	18.8	16.3	16.2	13.9	5.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.4	74.4	77.9	81.8	82.8	84.5	84.7	84.8	82.8	72.8	67.3						
PNdB	83.8	88.8	91.2	94.8	96.8	97.8	98.8	98.9	97.4	88.8	88.4						

SIDELINE 200. FT.
(60.96 M)
VEHICLE B-55
CONFIG TOR 27
LOC SCHENECTADY
DATE 1/8/75
RUN 43/7
TAPE
BAR 29.9 MG
(100000. N/M2)
TAMB 49. DEG F
(293. DEG K)
TWET 45. DEG F
(283. DEG K)
HACT 6.67 GM/M3
(.00007 KG/M3)
NFA 7837. RPM
(821. RAD/SEC)
NFK 7914. RPM
(829. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
884. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 28 PR. 11.0

MODEL SOUND PRESSURE LEVELS (RE. 0.0002 DYNE/CM**2) FOR 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT.																		
(S. M)	100	71.2	73.4	74.6	75.1	75.5	76.2	76.9	76.9	79.8	84.3	88.8						113.1
VEHICLE R-88	125	76.5	77.9	78.6	77.8	78.3	78.5	78.7	80.9	82.8	84.3	88.3						114.7
CONFIG LOF-67	160	75.2	76.4	76.9	77.6	77.5	77.7	80.4	81.6	84.3	86.3	88.6						115.2
LOC SCHENECTADY	200	74.5	74.9	75.6	76.8	76.5	78.5	81.2	83.4	85.1	87.3	90.8						116.2
DATE 1/8/75	250	77.5	78.2	79.6	80.8	81.3	82.2	84.4	84.4	85.8	87.3	89.8						117.3
RUN 43/8	315	78.7	79.4	79.9	81.3	81.8	83.8	83.4	84.1	85.1	86.9	87.6						117.8
TAPE	400	77.3	77.4	78.1	79.8	80.3	81.5	82.4	83.8	84.6	85.8	86.5						115.8
BAR 29.9 MG	500	75.5	76.4	76.9	79.1	80.8	80.3	82.4	82.9	84.3	84.6	85.4						115.2
(98600. N/M2)	630	76.8	78.2	79.1	81.0	81.8	82.5	84.9	85.4	85.8	85.8	85.4						117.8
TAMB 40. DEG F	800	79.3	80.4	81.1	82.4	82.6	83.8	85.7	86.6	86.6	85.1	85.3						117.9
(283. DEG K)	1000	77.3	78.9	79.9	81.1	82.3	83.6	85.8	86.6	86.6	83.8	83.3						117.4
TWET 45. DEG F	1250	77.9	80.2	81.4	83.4	84.8	86.3	87.9	88.1	88.1	84.3	83.3						119.2
(280. DEG K)	1600	79.6	83.2	84.1	87.5	88.6	89.8	91.1	90.6	90.1	84.8	82.6						122.1
HACT 0.07 GM/MJ	2000	85.9	89.3	90.4	94.2	90.1	90.3	90.9	91.4	97.4	91.1	89.3						130.1
(.00067 AG/MJ)	2500	81.6	86.5	86.4	92.8	93.4	94.8	95.6	95.6	92.9	87.6	89.4						126.6
NFA 7037. RPM	3150	82.1	86.8	89.8	93.3	96.7	95.8	96.6	96.3	95.6	89.8	87.8						127.7
(821. RAD/SEC)	4000	87.3	93.5	93.5	97.8	98.6	100.3	104.8	107.8	169.3	100.6	99.7						138.6
NFX 7914. RPM	5000	83.2	87.9	91.2	95.8	97.8	94.7	99.7	99.8	98.8	91.8	87.4						130.9
(829. RAD/SEC)	6300	85.8	90.2	93.8	97.6	101.7	104.4	103.9	102.7	97.2	93.8	89.7						134.4
NFB 8623. RPM	8000	83.9	91.6	97.4	101.8	99.1	101.3	101.4	100.4	97.1	93.4	88.8						133.2
(824. RAD/SEC)	10000	81.6	87.4	91.7	95.8	97.2	99.8	100.9	100.1	98.7	92.4	88.8						131.4
NO. OF BLADES 18	12500	88.4	84.1	91.8	94.9	98.8	99.3	99.3	100.8	98.1	91.5	88.7						131.1
FAN TIP SPEED	16000	77.6	82.2	86.1	90.5	93.5	94.9	96.8	98.8	93.2	88.8	84.4						128.8
884. FT/SEC	20000	76.5	81.8	85.7	89.4	91.8	94.1	96.8	98.8	94.1	88.2	83.7						128.4
	25000	75.3	79.8	83.9	88.2	89.9	92.7	95.7	96.7	93.2	87.8	82.5						127.8
	31500	75.8	78.9	83.1	86.9	89.1	91.8	93.4	95.2	92.3	88.8	84.9						127.8
	40000	74.9	76.9	81.4	84.4	85.9	89.1	91.8	91.9	88.6	83.4	78.7						125.8
	50000	76.8	78.2	81.5	81.8	83.8	89.9	88.4	87.8	85.8	81.2	76.3						124.3
	63000	78.9	78.3	82.7	79.2	80.8	81.8	83.1	81.9	88.8	79.1	77.8						123.8
	80000	82.9	78.5	83.1	79.8	79.9	81.1	81.8	81.8	88.5	88.7	88.8						127.9
OVERALL MEASURED																		
OVERALL CALCULATED		98.4	99.9	103.8	106.9	108.2	110.3	111.3	111.9	111.3	104.8	103.4						143.8
	PWL	108.7	113.7	115.8	118.7	120.3	122.8	123.8	128.3	128.8	118.8	118.3						

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 YR. 11.0

MODEL SOUND PRESSURE LEVELS (DB. REF. P. 70 PERCENT REL. HUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.2	51.2	52.0	53.5	53.0	54.2	54.2	53.1	54.5	50.7	57.1						
VEHICLE G-55	125	53.4	55.6	56.0	55.9	56.0	56.4	55.9	57.0	57.4	56.5	60.7						
CONFIG 4AF 27	160	52.6	54.6	55.0	55.9	55.7	55.5	57.0	57.7	58.0	58.4	60.7						
LOC SCHENECTADY	200	51.2	52.4	53.0	55.0	56.0	56.2	58.2	59.3	59.4	59.2	57.9						
DATE 1/0/75	250	54.1	55.0	57.5	56.9	59.3	59.9	61.4	60.2	60.0	59.6	60.7						
RUN 43/6	315	55.2	56.0	57.7	59.4	59.7	60.5	60.3	59.8	59.1	58.1	55.2						
TAPE	400	53.4	54.7	55.9	57.5	58.1	59.0	59.2	59.2	58.5	56.9	53.7						
BAR 29.9 HG	500	51.0	53.0	54.5	57.0	57.8	57.6	59.1	58.4	56.1	54.9	51.9						
(100000. N/M2)	630	53.8	55.2	56.7	59.4	59.5	59.8	61.4	60.7	59.5	58.5	51.0						
TAMB 49. DEG F	800	55.4	57.4	58.6	60.8	60.6	60.9	62.1	61.8	60.3	55.0	51.5						
(283. DEG K)	1000	53.2	55.7	57.2	58.6	58.7	58.8	61.9	61.7	59.8	54.1	49.1						
TWET 45. DEG F	1250	53.6	56.8	58.0	60.8	62.1	63.2	64.8	63.8	61.1	54.0	48.7						
(280. DEG K)	1600	55.1	59.7	61.1	64.7	65.8	66.3	67.1	65.3	62.9	54.5	47.7						
MACT 0.67 GM/M3	2000	61.2	65.5	67.2	71.3	73.1	74.6	75.0	73.8	69.8	60.8	53.7						
(.00067 KG/M3)	2500	56.9	62.0	64.8	68.9	70.2	71.2	71.1	69.6	65.1	56.0	49.1						
NPA 7637. RPM	3150	56.9	62.5	65.9	69.9	71.1	71.9	71.8	70.1	67.4	58.2	50.0						
(821. RAD/SEC)	4000	61.5	66.8	69.4	74.0	74.7	75.8	76.7	74.4	69.4	60.0	51.5						
NPR 7014. RPM	5000	57.2	63.0	66.9	70.9	73.4	75.1	74.1	73.4	68.7	58.3	48.4						
(820. RAD/SEC)	6300	58.2	64.5	66.6	72.8	76.8	79.8	77.8	76.8	68.8	58.8	48.7						
NPB 6623. RPM	8000	58.7	64.7	71.3	70.8	73.1	74.8	73.8	71.1	65.1	57.1	44.5						
(936. RAD/SEC)	10000	51.7	58.9	64.8	68.2	68.7	71.6	71.6	68.9	62.3	53.1	39.2						
NO. OF BLADES 18	12500	48.3	55.2	61.0	65.3	66.1	66.9	67.5	65.8	58.4	47.7	31.3						
FAN TIP SPEED	16000	46.7	47.8	52.4	57.4	60.1	60.7	60.7	59.2	49.8	37.8	18.2						
884. FT/SEC	20000	34.8	41.1	47.3	51.1	53.4	54.8	55.4	53.8	43.3	27.8	3.8						
	25000	24.9	32.6	38.8	43.5	44.9	46.3	46.6	42.9	31.8	13.1							
	31500	12.8	20.8	27.8	32.3	34.1	34.7	32.8	28.5	15.5								
	40000		8.9	16.7	19.8	16.8	16.7	13.8	6.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		69.2	74.8	77.8	81.7	82.8	84.5	84.8	83.8	81.9	73.8	67.8						
PNDB		83.2	89.1	90.9	94.9	96.8	97.7	98.8	98.7	97.3	87.7	88.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONDAY 3 SAT 80 PM. 11.9

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	PWL
50																		
63																		
RADIAL 17. FT. 0																		
(5. M) 100	65.8	71.3	70.2	77.6	76.5	74.8	73.2	68.9	72.2	78.7	77.8							109.2
VEHICLE R-55 125	69.5	68.8	70.7	68.8	69.3	73.8	68.7	72.2	73.2	73.2	75.3							105.3
CONFIG 60DEG 160	64.8	66.3	66.4	67.1	67.5	75.5	69.9	78.7	73.2	78.4	76.3							105.4
LOC SCHENECTADY 200	64.8	65.8	65.9	67.6	69.8	75.3	71.9	73.9	75.4	77.2	78.1							106.6
DATE 1/8/75 250	66.8	67.5	68.9	70.6	71.8	78.3	73.2	73.4	74.4	75.7	78.1							107.7
RUN 43/9 315	68.8	69.2	70.4	71.6	72.3	73.8	73.2	73.9	74.9	76.2	75.8							108.6
TAPE 400	66.6	67.7	68.7	70.6	71.3	76.8	73.2	74.2	76.4	78.4	74.8							108.8
BAR 28.8 MB 500	65.6	67.5	68.2	70.7	71.8	72.3	72.9	73.4	74.2	74.9	73.3							105.8
(98888. N/M2) 630	67.9	69.5	78.9	73.2	73.3	75.1	76.2	76.7	77.7	77.7	74.8							108.8
TAMB 48. DEG F 800	68.8	71.5	72.7	73.7	73.8	75.6	77.2	78.2	78.4	77.8	75.1							109.8
(283. DEG K) 1000	68.8	78.5	72.7	73.9	74.8	76.8	78.4	79.2	86.7	78.9	74.1							118.4
TWET 45. DEG F 1250	74.1	78.8	77.7	81.2	83.4	88.3	88.7	88.7	89.2	85.2	88.8							117.1
(280. DEG K) 1600	73.4	78.8	78.4	81.8	82.8	85.1	86.1	88.4	88.9	83.8	77.1							117.4
HACT 8.87 GM/M3 2000	73.1	78.3	77.9	81.3	82.1	84.4	85.1	85.4	85.2	81.7	78.1							116.8
(.888847 LB/M3) 2500	81.4	85.8	87.9	88.8	9c.7	91.8	92.8	91.8	188.2	95.8	88.3							(8.8
NFA 3488. RPM 3150	77.4	81.8	84.9	84.3	87.8	89.1	98.3	98.3	93.4	89.7	84.8							122.9
(374. RAD/SEC) 4000	78.8	82.8	82.5	88.8	88.1	91.1	91.5	93.2	91.3	85.4	81.7							123.8
NFA 5548. RPM 5000	74.5	78.5	88.8	84.5	87.8	98.2	91.7	98.9	94.8	88.8	88.7							122.7
(588. RAD/SEC) 6300	73.5	77.8	79.7	84.8	87.7	91.5	91.4	92.8	92.8	85.8	81.8							122.7
NFB 6823. RPM 8000	78.8	74.9	78.4	83.8	86.4	87.9	88.5	89.4	88.9	83.8	78.8							128.1
(924. RAD/SEC) 10000	88.9	73.8	78.9	82.1	83.9	86.7	87.7	88.2	87.3	84.8	78.8							118.1
NO. OF BLADES 15 12500	87.3	78.9	75.8	88.4	82.8	84.8	88.8	88.3	88.8	81.9	78.5							118.4
FAN TIP SPEED 16888	84.8	88.1	71.4	78.1	78.2	82.8	83.8	83.8	84.5	78.5	74.7							113.1
478. FT/SEC 20000	83.5	85.8	78.5	74.4	77.3	88.4	82.3	84.4	84.2	78.1	72.7							114.8
25000	83.4	85.4	88.7	72.2	75.8	78.8	79.5	81.5	81.3	75.4	78.8							112.5
31500	83.3	84.7	88.1	72.8	75.1	77.1	78.4	88.8	88.4	74.2	88.7							112.8
40000	83.8	84.8	87.1	88.4	72.7	74.8	76.1	77.4	77.8	72.8	88.4							111.8
50000	87.2	88.5	88.8	88.4	78.5	71.8	73.7	73.8	74.8	78.3	88.8							111.2
63000	88.8	88.4	78.7	88.5	88.5	78.3	78.8	78.8	78.8	88.7	88.2							112.4
80000	72.8	88.8	72.4	88.8	78.2	71.1	71.8	71.8	78.8	71.3	78.1							117.8
OVERALL MEASURED																		
OVERALL CALCULATED	86.8	98.8	92.4	94.8	97.4	99.7	188.8	181.8	183.8	98.8	93.4							138.8
PWL	188.8	184.7	188.7	188.2	118.7	112.7	113.2	114.1	117.8	113.1	187.7							

NOISE SOURCE PRESSURE LEVELS (RE. LEG. F. 20 MICRONS REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	30. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	42.7	49.3	54.4	50.1	54.9	50.8	50.5	45.1	40.0	40.0	45.9						
VEHICLE R-95	125	46.4	46.4	48.8	47.8	47.6	51.7	45.9	40.3	47.7	45.4	43.7						
CONFIG [illegible]	160	41.0	43.8	44.5	45.4	45.7	53.3	47.1	40.7	47.6	47.5	44.6						
LOC SCHENECTADY	200	41.5	42.5	43.9	45.8	47.1	53.8	49.4	49.6	49.7	48.1	46.8						
DATE 1/8/75	250	43.4	44.9	46.8	48.7	49.1	54.9	50.1	49.2	48.8	47.4	43.7						
RUN 43/0	315	44.5	46.0	48.2	49.7	50.2	51.3	56.8	49.8	49.8	47.7	43.8						
TAPE	400	42.9	45.8	48.4	48.8	49.2	53.5	49.9	49.8	49.3	48.8	41.7						
BAR 29.8 MB	500	41.9	44.8	45.8	48.5	49.8	49.7	49.8	48.9	47.9	48.1	48.2						
(99000. N/M2)	630	44.8	46.3	48.5	50.9	51.8	52.3	52.7	52.8	51.3	48.7	41.4						
TAMB 49. DEG F	800	49.9	48.4	50.1	51.3	51.4	52.7	53.8	53.8	52.9	48.7	41.3						
(283. DEG K)	1000	44.3	47.3	50.4	51.4	52.2	53.8	54.7	54.2	53.9	49.4	38.9						
TWET 45. DEG F	1250	49.8	53.4	54.8	54.8	54.8	53.2	54.8	53.5	52.2	53.4	48.3						
(280. DEG K)	1600	48.9	53.2	55.4	54.2	53.8	51.8	52.1	51.1	50.7	52.9	42.8						
HACT 0.67 GM/M3	2000	48.4	52.8	54.7	54.3	53.1	49.8	49.8	50.8	49.7	51.3	44.8						
(.00067 KG/M3)	2500	50.5	51.8	54.8	53.4	52.4	48.2	48.1	48.1	47.2	49.2	43.2						
WPA 5000. RPM	3150	52.1	52.8	53.2	52.9	51.4	46.1	45.5	44.2	43.2	46.3	47.1						
(524. RAD/SEC)	4000	51.1	50.1	50.5	49.8	48.2	44.7	44.2	43.8	42.5	43.2	44.8						
WPX 5540. RPM	5000	48.5	48.5	48.7	48.5	47.7	43.6	43.1	42.9	42.0	42.9	41.7						
(580. RAD/SEC)	6300	46.7	51.3	54.8	53.9	52.8	48.1	45.1	44.1	43.8	45.2	40.8						
WPB 6023. RPM	8000	42.8	48.8	52.3	51.8	48.4	41.3	40.9	40.1	38.9	47.8	38.1						
(826. RAD/SEC)	10000	38.8	44.8	49.3	54.8	54.4	38.8	38.4	38.9	36.9	44.7	28.2						
NO. OF BLADES 18	12500	34.8	48.8	49.1	58.9	52.9	34.4	35.8	34.1	34.2	38.1	21.1						
FAN TIP SPEED	16000	28.8	33.3	37.7	42.9	46.8	47.7	47.7	48.2	41.1	27.4	7.8						
478. FT/SEC	20000	21.8	28.8	32.1	38.5	38.2	41.1	40.9	39.4	33.4	17.4							
	25000	13.2	18.1	23.3	27.8	30.7	31.6	30.3	27.7	20.8	1.8							
	31500	0.8	6.7	12.8	17.4	20.1	23.2	17.8	13.2	3.8								
	40000				0.1	2.8	2.8											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		51.4	56.3	60.8	70.7	73.2	78.8	74.9	73.7	70.4	67.2	57.8						
MEAS		78.7	80.8	83.1	84.8	87.1	80.7	80.4	87.8	80.8	81.9	71.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 3 DAY 10 YR. 1981

MODEL SOUND PRESSURE LEVELS (80. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
S. N)	100	68.2	72.5	77.2	78.6	77.5	76.8	74.9	78.2	71.4	78.2	77.1							109.7
VEHICLE R=36	125	69.2	66.8	78.9	87.9	71.8	69.8	68.4	71.9	72.2	73.4	78.1							104.9
CONFIG	160	64.7	68.8	87.7	87.1	69.8	68.8	78.2	71.4	72.9	73.7	78.1							104.3
LOC SCHEDULED	200	63.9	65.5	66.4	87.9	78.8	78.5	72.4	74.2	73.2	77.2	78.3							106.2
DATE 1/8/78	250	66.4	67.5	68.7	71.1	71.5	72.8	73.2	73.4	73.7	78.7	78.1							108.1
RUN 44/1	315	68.2	69.5	78.8	72.4	72.8	73.3	73.4	74.7	74.7	78.2	78.3							107.1
TAPE	400	66.7	68.2	69.7	78.2	71.5	72.5	73.9	74.4	73.2	73.4	74.1							108.4
BAR 28.8 MB	500	65.5	66.8	68.2	78.4	71.8	72.3	73.7	73.7	73.9	74.4	73.1							108.6
(98888. N/M2)	630	67.5	68.8	78.8	73.2	74.3	75.3	78.2	78.9	77.4	77.2	76.8							108.8
TAMB 98. DEG F	800	67.8	78.3	72.7	74.4	75.1	75.6	76.7	78.7	78.2	78.2	74.1							109.7
(283. DEG K)	1000	68.8	71.2	74.4	74.4	75.1	76.3	78.4	78.8	88.4	78.8	74.3							118.7
THET 45. DEG F	1258	74.8	78.3	78.8	82.2	83.8	88.8	88.4	88.8	88.4	88.8	88.8							118.3
(288. DEG K)	1688	74.4	78.3	78.4	81.3	82.8	85.1	88.1	88.7	88.4	83.7	77.8							117.5
HACT 8.37 GM/M3	2888	72.8	75.8	77.2	78.8	81.4	83.4	85.1	88.4	84.8	81.8	78.8							118.8
(.88837 LB/M3)	2588	78.8	81.3	81.4	88.8	87.4	88.8	92.8	95.4	98.7	94.8	91.1							128.3
RPM 9988. RPM	3158	74.5	78.8	88.1	84.3	86.7	88.4	88.8	92.3	93.2	88.8	88.8							122.8
(977. RAD/SEC)	4888	75.5	88.8	84.8	88.8	91.8	92.1	91.8	84.8	91.4	88.7	82.7							124.1
RPM 9555. RPM	5888	72.8	77.5	88.8	84.3	87.1	88.8	91.2	91.9	92.1	88.8	88.8							122.8
(942. RAD/SEC)	6388	73.2	77.8	78.7	84.8	87.8	98.8	98.4	93.5	91.3	85.4	81.3							122.4
RPM 8823. RPM	8888	78.3	73.9	78.2	82.4	85.1	88.1	88.8	88.7	88.8	83.3	78.3							128.3
(924. RAD/SEC)	18888	68.4	71.7	75.7	81.2	84.2	86.7	88.2	88.7	88.8	83.3	78.8							118.3
NO. OF BLADES IS	12588	67.1	68.9	73.8	78.5	83.4	85.4	88.3	87.8	86.7	81.2	76.5							118.8
FAN TIP SPEED	16888	63.8	66.9	68.8	73.1	78.3	81.5	84.4	85.1	84.5	78.3	74.2							118.8
481. FT/SEC	28888	62.3	66.2	68.8	74.8	77.8	78.5	82.4	84.5	84.8	77.4	72.3							114.7
	25888	61.8	65.5	67.8	72.1	76.8	77.3	79.8	81.3	81.1	75.8	78.4							112.7
	31583	68.1	65.1	68.8	71.8	78.5	77.8	78.8	88.4	88.5	74.4	88.3							112.9
	48888	58.7	88.4	88.5	88.8	72.8	74.1	76.5	77.3	77.3	72.1	88.3							111.8
	58888	61.4	88.5	88.8	88.4	71.8	71.7	73.7	73.4	73.1	78.4	87.4							111.8
	63888	62.7	87.4	78.8	78.8	78.8	78.8	78.9	78.8	88.8	88.8	88.8							112.8
	88888	88.1	88.8	72.2	78.8	71.1	71.1	71.8	71.3	78.3	71.4	78.3							117.8
OVERALL MEASURED																			
OVERALL CALCULATED		88.1	88.8	91.2	88.8	87.4	88.2	188.8	182.2	182.8	88.8	84.8							128.8
	PWL	98.4	182.8	186.3	189.1	111.8	112.8	113.3	118.2	118.8	113.8	188.8							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 10 HR. 12.1

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	45.2	50.3	55.4	57.1	55.9	54.7	52.2	46.4	40.1	47.6	45.7						
125	40.1	45.7	49.1	48.2	49.8	46.9	45.7	48.1	46.7	45.8	44.8						
160	41.5	43.6	45.8	45.4	47.2	45.8	47.3	47.4	47.3	47.7	44.4						
200	40.6	43.0	44.4	48.1	48.1	48.2	49.5	50.1	49.5	49.1	48.2						
250	43.0	44.9	47.6	49.2	49.8	49.7	50.1	49.2	47.8	47.4	43.7						
315	44.7	46.8	48.7	50.4	50.7	50.8	50.3	50.4	48.7	47.7	43.7						
400	43.1	45.5	47.4	48.1	49.4	50.0	50.7	50.0	49.1	48.8	41.2						
500	41.8	43.9	45.8	48.3	49.6	49.7	50.3	49.2	47.7	45.8	39.9						
630	43.4	46.0	48.5	50.9	52.0	52.6	52.7	52.3	51.0	48.2	41.4						
800	43.8	47.2	50.1	52.1	52.6	52.7	53.1	53.9	52.8	48.9	40.3						
1000	44.7	48.8	51.7	51.9	52.5	53.3	54.7	55.8	53.7	49.4	40.2						
1250	50.3	54.9	57.1	59.6	60.9	63.7	64.5	63.6	62.5	58.7	48.3						
1600	50.3	54.7	56.4	58.5	60.8	61.8	62.1	61.3	59.2	53.9	42.5						
2000	48.1	51.8	54.8	56.1	58.3	59.9	60.9	59.8	57.4	51.8	41.2						
2500	51.9	57.4	58.8	63.4	64.2	66.2	66.4	65.6	64.8	63.7	54.9						
3150	49.3	54.6	56.5	60.9	63.2	64.6	65.8	66.2	65.8	59.1	49.8						
4000	49.6	56.1	60.5	65.8	68.8	67.7	66.5	67.3	62.5	53.6	44.5						
5000	46.9	52.5	55.7	60.2	62.9	64.1	65.8	64.9	62.8	53.2	42.8						
6300	46.4	51.3	54.8	60.1	62.1	64.6	64.1	65.8	61.8	51.2	40.2						
8000	42.2	47.1	52.1	56.5	59.2	62.6	61.4	60.4	58.9	47.8	38.1						
10000	38.5	43.2	48.8	53.8	56.7	58.6	58.9	57.4	54.4	44.8	30.8						
12500	34.5	39.8	43.8	49.9	53.6	54.9	54.5	53.4	49.8	37.4	21.2						
16000	26.7	32.1	38.3	42.8	48.2	47.3	48.5	46.3	41.2	27.2	8.1						
20000	19.8	25.2	30.1	38.1	39.5	48.2	41.8	38.9	33.2	16.7							
25000	11.8	18.2	21.8	27.4	31.8	30.9	38.4	27.5	18.8	8.8							
31500		7.8	18.9	17.3	28.5	28.1	18.8	13.6	3.7								
40000				8.5	2.7	1.6											
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.8	64.8	67.3	71.1	73.1	74.4	74.8	75.2	73.2	67.2	58.8						
PNDB	73.1	78.8	81.4	85.4	87.8	88.4	88.5	89.8	87.8	81.7	72.9						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-58
CONFIG 17-26
LOC SCHENECTADY
DATE 1/9/75
RUN 44/1
TAPE
BAR 29.9 MG (99800. N/M2)
TAMB 50. DEG F (283. DEG K)
TWET 45. DEG F (280. DEG K)
HACT 0.37 GM/M3 (.00037 KG/M3)
NFA 5507. RPM (577. RAD/SEC)
NFA 5555. RPM (582. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 4811. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 10 HR. 12.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AXIAL RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.58)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. M)	100	72.3	75.5	73.2	74.6	77.5	75.8	74.4	73.9	74.9	78.2	80.8								109.7
VEHICLE R-55	125	71.3	71.3	72.2	70.9	73.6	72.0	71.9	74.4	75.7	77.9	80.6								108.8
CONFIG	160	68.8	69.5	70.4	70.4	71.8	71.5	73.2	74.7	76.9	79.4	80.8								108.8
LOC SCHENECTADY	200	68.0	68.2	69.7	70.9	73.5	74.5	74.9	76.9	78.2	80.9	82.3								109.6
DATE 1/8/75	250	70.8	70.7	72.7	73.4	74.5	74.8	76.2	77.2	77.7	78.9	80.8								109.5
RUN 44/2	315	72.0	73.2	74.7	75.1	75.8	76.5	76.9	77.7	78.7	80.4	80.3								110.0
TAPE	400	70.6	71.0	72.9	73.7	74.0	75.8	75.9	77.7	77.7	78.7	78.0								109.3
BAR 29.9 MG	500	69.3	69.5	70.9	72.9	74.1	74.8	76.4	76.9	76.9	77.9	77.1								108.7
(99800. N/M2)	630	70.9	71.8	73.9	75.7	77.1	78.1	79.2	79.7	80.4	80.2	77.8								111.5
TAMB 90. DEG F	800	71.4	72.8	74.9	76.7	77.3	77.8	78.9	80.9	80.7	79.9	77.3								111.9
(305. DEG K)	1000	71.9	73.7	76.4	78.4	77.3	79.1	80.7	82.2	82.4	79.7	76.6								112.8
THET 45. DEG F	1250	74.9	77.5	79.2	79.7	81.1	82.8	84.9	85.7	85.4	81.5	78.3								116.2
(280. DEG K)	1600	84.9	88.3	86.7	90.0	88.9	90.4	93.4	94.9	93.4	87.5	81.6								124.8
HACT 6.37 GM/M3	2000	77.4	79.8	80.9	82.3	84.4	86.6	88.9	89.1	87.4	83.0	79.4								119.3
(.00637 KG/M3)	2500	75.6	80.1	81.9	84.8	87.2	88.9	90.6	90.4	90.2	85.3	82.1								121.2
NFA 6207. RPM	3150	80.1	85.3	86.6	90.3	93.7	96.4	95.3	96.0	99.2	98.9	95.5								128.6
(650. RAD/SEC)	4000	77.6	82.8	84.5	88.1	91.6	92.1	93.5	93.5	92.1	87.2	83.0								124.3
NFC 6352. RPM	5000	81.0	90.7	88.0	93.8	97.9	95.5	96.9	95.7	93.3	89.9	84.9								128.3
(665. RAD/SEC)	6300	76.6	80.3	83.7	87.4	91.2	92.2	93.7	94.2	93.1	89.6	85.0								126.7
NFD 6823. RPM	8000	76.4	78.4	82.2	86.9	88.6	91.4	94.7	93.7	92.2	88.8	82.3								124.2
(924. RAD/SEC)	10000	73.9	78.0	82.7	86.7	88.4	91.7	94.0	93.5	92.3	88.0	82.8								124.3
NO. OF BLADES 18	12500	72.1	74.4	79.3	84.0	87.6	90.6	91.3	93.1	90.2	85.2	80.3								122.8
FAN TIP SPEED	16000	68.6	71.1	75.4	80.1	84.0	86.3	88.7	89.4	87.8	81.8	78.0								119.8
550. FT/SEC	20000	67.1	68.9	73.9	78.3	82.4	84.5	87.4	89.2	87.2	81.0	76.3								119.3
	25000	65.9	67.0	71.8	77.1	80.2	82.6	85.1	86.8	84.9	79.0	73.6								117.6
	31500	65.1	66.8	71.2	76.4	79.3	81.7	84.1	85.9	84.8	78.1	72.3								117.0
	40000	65.3	69.1	69.3	73.8	76.4	78.8	81.5	82.1	80.8	76.0	68.8								115.9
	50000	67.7	65.8	69.3	70.8	73.8	75.5	78.2	77.7	76.8	72.9	66.4								116.4
	63000	70.3	66.9	70.8	69.8	71.1	72.4	73.2	72.8	71.5	70.8	66.8								113.9
	80000	73.4	69.5	72.2	70.5	70.9	71.6	71.8	71.5	70.3	71.3	70.3								110.2
OVERALL MEASURED																				
OVERALL CALCULATED		98.2	95.0	95.8	99.2	102.8	102.9	104.3	104.6	104.8	101.1	98.2								
	PNDB	102.7	100.8	100.6	112.8	115.9	116.2	116.9	117.3	116.2	116.2	113.9								136.6

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 10 HR. 12.2

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																		
63																		
80																		
100	49.2	53.3	51.4	53.1	55.0	53.7	51.7	50.1	48.6	50.5	49.4							
125	48.1	48.9	50.3	49.2	52.1	49.9	49.2	50.0	50.2	50.1	49.0							
160	45.8	47.1	48.5	48.7	49.2	49.3	50.3	50.7	51.3	51.5	48.7							
200	44.7	45.8	47.7	49.1	51.6	52.2	52.0	52.0	52.5	52.0	50.2							
250	47.4	48.2	50.0	51.5	52.6	52.4	53.1	53.0	51.0	50.0	48.2							
315	48.5	50.0	52.5	53.2	53.7	54.1	53.0	53.4	52.7	52.0	47.7							
400	46.9	48.2	50.7	51.6	51.9	52.5	52.7	53.3	51.6	50.1	45.7							
500	45.6	46.6	48.6	50.0	51.0	52.2	53.1	52.4	50.7	49.1	43.9							
630	47.0	48.0	51.5	53.4	54.7	55.3	55.7	55.0	54.0	51.2	44.4							
800	47.4	49.7	52.4	54.3	54.9	55.0	55.3	55.1	54.1	50.7	43.5							
1000	47.7	50.5	53.7	53.9	54.7	56.1	56.9	57.2	55.7	50.2	42.4							
1250	50.6	54.2	56.3	57.1	58.4	59.7	61.0	60.5	58.5	51.7	43.0							
1600	60.4	64.7	65.7	67.2	66.0	67.1	69.3	69.0	66.2	57.4	46.5							
2000	52.7	55.0	57.7	59.3	61.3	63.1	64.0	63.6	59.9	52.5	43.7							
2500	50.7	56.1	58.5	61.4	63.9	65.2	66.1	64.6	62.4	54.4	45.9							
3150	54.9	61.1	63.0	66.9	70.2	72.4	70.6	70.4	71.0	66.0	58.6							
4000	51.6	58.1	60.9	64.2	67.7	67.7	68.2	68.0	63.3	55.6	44.6							
5000	55.0	65.0	63.7	69.7	73.7	70.9	71.4	68.7	64.1	57.2	48.0							
6300	56.0	54.6	58.6	64.6	66.3	66.9	67.3	66.3	62.7	55.9	44.8							
8000	48.3	51.6	56.1	61.0	62.7	64.9	67.1	64.4	60.2	50.5	38.1							
10000	44.0	49.5	55.0	61.3	61.6	63.6	64.7	62.2	57.9	47.5	34.0							
12500	39.6	43.5	49.4	54.4	57.9	60.2	59.5	58.9	52.5	41.4	24.9							
16000	31.0	36.3	41.6	47.0	50.7	52.1	52.7	50.8	44.4	30.7	11.8							
20000	24.6	29.0	35.4	41.4	44.2	45.2	46.0	44.2	30.5	20.9								
25000	15.3	19.7	28.4	32.4	35.2	36.2	35.9	33.0	23.0	4.0								
31500	2.7	8.0	19.7	21.8	24.3	24.9	23.8	19.1	7.2									
40000				4.8	8.4	8.4	4.8											
50000																		
63000																		
80000																		
OVERALL CALCULATED	64.8	70.5	71.4	75.8	77.7	77.8	78.2	77.8	74.8	69.3	61.0							
PNDB	77.8	84.4	84.7	88.9	92.8	92.1	91.6	91.8	89.9	84.7	76.5							

R-55
TF 25
LOC SCHENECTADY
DATE 1/8/75
RUN 44/2
TAPE
BAR 29.9 HG
(100800. N/M2)
TAMB 50. DEG F
(283. DEG K)
TWET 45. DEG F
(280. DEG K)
HACT 6.37 GM/M3
(.00837 KG/M3)
NFA 6297. RPM
(659. RAD/SEC)
NFK 6352. RPM
(665. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
956. FT/SEC

SIDELINE 200. FT.
(60.96 M)
VEHICLE
CONFIG

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 HR. 12.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.8	72.3	73.7	72.9	73.8	73.3	73.7	74.2	76.9	81.7	84.8							110.2
VEHICLE R-55	125	75.3	80.8	80.7	78.1	80.5	77.0	74.7	77.7	79.9	81.9	84.8							113.5
CONFIG → 20	160	71.6	72.8	73.7	73.9	74.8	74.8	76.7	78.2	80.4	83.7	84.8							111.8
LOC SCHENECTADY	200	71.0	71.2	71.9	73.4	75.5	77.5	77.9	80.2	81.2	84.9	86.1							112.9
DATE 1/8/75	250	73.8	74.5	76.2	77.4	77.8	78.5	79.9	80.4	81.7	83.4	84.8							113.4
RUN 44/3	315	75.8	75.7	77.4	78.1	79.3	79.5	80.2	81.2	82.4	84.2	84.3							114.1
TAPE	400	74.3	74.5	75.7	76.4	77.3	78.0	79.4	80.7	81.7	82.7	83.1							112.9
BAR 29.9 MG	500	72.1	73.0	74.4	75.9	77.1	77.5	79.4	80.4	80.7	81.4	81.3							112.1
(99800. N/M2)	630	73.9	74.5	76.2	78.4	79.8	80.6	81.7	82.4	82.9	83.2	81.3							114.1
TAMB 50. DEG F	800	74.6	75.3	77.4	79.4	79.8	80.8	82.2	83.9	84.2	82.9	80.8							114.8
(283. DEG K)	1000	74.8	76.2	78.9	79.2	79.8	81.6	83.2	84.7	84.7	81.9	79.6							115.3
THET 45. DEG F	1250	76.4	78.6	80.4	81.0	83.6	84.6	86.2	86.4	86.7	83.0	80.6							117.0
(280. DEG K)	1600	85.8	86.5	89.9	93.0	94.1	94.9	94.1	94.4	92.9	88.2	84.8							120.5
MACT 0.37 GM/M3	2000	86.1	88.6	89.7	93.0	94.4	95.6	95.9	95.4	93.4	89.0	85.1							121.2
(.00037 KG/M3)	2500	78.6	82.8	84.6	87.3	89.9	91.4	93.1	93.1	91.7	87.0	83.1							123.7
NFA 7089. RPM	3150	80.9	84.6	87.4	91.3	93.7	95.6	96.1	96.8	98.9	94.5	90.8							120.1
(742. RAD/SEC)	4000	81.8	85.8	89.0	92.8	95.1	96.8	97.3	97.5	94.4	93.0	91.0							129.1
NFR 7151. RPM	5000	83.3	87.2	92.2	96.8	95.6	99.5	98.9	99.4	95.1	90.9	87.4							130.2
(749. RAD/SEC)	6300	80.1	85.3	88.4	92.4	94.0	95.5	96.9	96.0	94.6	90.6	86.5							127.9
NFB 8823. RPM	8000	78.9	84.7	87.7	91.4	93.1	94.8	96.7	97.5	94.2	89.8	85.9							127.4
(924. RAD/SEC)	10000	77.7	83.2	87.2	91.7	94.2	97.9	98.9	97.5	95.9	90.3	85.8							128.5
NO. OF BLADES 15	12500	75.9	78.9	83.6	88.7	92.9	94.8	96.1	96.8	93.0	88.7	83.5							126.9
FAN TIP SPEED	16000	72.6	75.6	80.2	85.1	89.0	90.5	93.2	94.4	90.6	85.1	81.0							124.2
819. FT/SEC	20000	70.9	73.4	78.9	84.0	86.6	89.2	92.0	94.2	91.2	84.9	79.3							124.0
	25000	69.1	71.7	76.8	82.3	85.0	87.6	89.8	92.3	89.4	83.5	77.8							122.8
	31500	66.4	71.3	76.5	81.6	84.3	86.5	88.8	90.9	88.0	82.1	75.5							122.4
	40000	67.0	68.6	74.3	78.8	81.4	83.8	86.7	87.6	85.0	80.0	71.1							121.8
	50000	66.4	67.8	72.3	75.1	77.5	80.5	83.2	82.9	80.8	76.9	69.2							118.9
	63000	76.0	66.9	71.3	71.0	73.1	74.9	77.2	76.8	74.8	72.5	69.0							116.3
	80000	73.4	71.2	72.2	70.5	71.6	72.1	73.3	72.5	71.3	71.5	70.6							118.8
OVERALL MEASURED																			
OVERALL CALCULATED		93.0	96.3	99.2	102.9	104.4	106.5	107.3	107.6	106.3	102.2	99.2							130.0
	PNDB	105.7	109.0	112.8	116.2	116.7	119.1	119.3	119.8	119.7	116.0	112.8							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 18 HR. 12.2

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.7	50.0	51.9	51.3	52.1	51.2	51.0	50.4	51.6	54.0	53.4						
125	52.1	57.7	58.8	58.5	58.8	54.9	51.9	53.0	54.5	54.1	53.2						
160	48.6	50.3	51.8	52.2	53.0	52.6	53.8	54.2	54.8	55.7	54.0						
200	47.7	48.6	49.9	51.6	53.6	55.2	55.0	56.1	55.5	56.8	54.0						
250	50.4	51.9	54.1	55.5	55.8	56.2	56.9	56.2	55.8	55.1	52.9						
315	52.3	53.1	55.2	56.2	57.2	57.1	57.0	56.9	56.5	55.7	51.7						
400	50.7	51.7	53.4	54.3	55.2	55.5	56.2	56.3	55.8	54.1	50.2						
500	48.4	50.1	52.1	53.8	54.8	54.9	56.1	55.9	54.4	52.8	48.2						
630	50.0	51.5	53.7	56.2	57.2	57.8	58.2	57.8	56.5	54.2	47.9						
800	50.6	52.2	54.9	57.1	57.1	56.0	56.6	56.1	57.6	53.7	47.0						
1000	50.5	53.0	56.2	58.7	57.2	56.8	59.4	59.7	57.9	52.4	45.4						
1250	52.1	55.4	57.6	58.4	60.9	61.5	62.3	61.3	59.7	53.2	46.8						
1600	61.2	65.0	66.9	70.2	71.3	71.6	70.1	69.1	65.7	58.1	49.8						
2000	61.4	64.8	66.5	70.1	71.3	72.1	71.6	69.8	66.9	58.5	49.9						
2500	53.7	58.9	61.3	64.2	66.7	67.7	66.6	67.3	63.9	56.2	46.9						
3150	55.6	60.3	63.7	67.9	70.2	71.6	71.3	70.7	70.7	63.1	53.8						
4000	56.1	61.1	65.0	69.0	71.2	72.4	72.8	72.0	70.8	62.7	52.6						
5000	57.2	62.3	67.9	72.7	71.4	74.8	73.4	72.4	68.8	58.2	48.8						
6300	53.2	59.6	63.4	67.6	69.1	70.1	70.8	70.1	64.2	56.5	45.8						
8000	50.8	57.8	61.8	65.5	67.2	68.1	69.1	68.1	62.2	53.8	41.3						
10000	47.8	54.7	59.5	64.3	66.7	66.9	66.7	66.2	60.7	51.8	37.8						
12500	43.4	48.8	53.9	59.2	63.1	64.2	64.3	62.4	55.2	44.9	28.2						
16000	35.8	40.8	46.5	52.8	55.7	56.3	57.2	55.5	47.4	34.8	14.8						
20000	28.4	33.5	40.4	46.1	48.5	50.8	51.2	49.2	40.5	24.2							
25000	18.6	24.5	31.4	37.8	40.8	41.2	40.7	38.8	28.1	8.1							
31500	6.8	13.3	20.9	27.8	29.3	29.6	28.3	24.1	11.2								
40000			3.8	9.5	11.4	11.4	9.3	1.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	67.7	71.8	74.9	78.7	79.8	81.2	80.8	79.7	78.8	78.2	63.7						
PNdB	80.7	84.6	88.4	92.4	92.9	94.7	94.8	93.1	91.1	84.3	78.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-95
CONFIG TP 26
LOC SCHENECTADY
DATE 1/8/75
RUN 44/3
TAPE
BAR 29.9 MG (100800. N/M2)
TAMB 50. DEG F (283. DEG K)
THET 45. DEG F (280. DEG K)
HACT 6.37 GM/M3 (.00637 KG/M3)
NFA 7089. RPM (742. RAD/SEC)
NFK 7151. RPM (749. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 619. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 HR. 12.2

MODEL SOUND PRESSURE LEVELS (99. DEG. F. 70 PERCENT REL. HUM. DATA)

ANGLES FROM INLET (IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.8	72.3	74.2	74.4	75.8	76.2	75.7	76.2	79.9	84.9	86.6							113.8
VEHICLE N-55	125	75.5	77.3	78.7	77.8	79.3	78.2	78.2	80.7	82.2	84.9	87.8							114.5
CONFIG TP 24	160	74.5	75.5	76.2	78.6	77.8	78.9	79.7	81.4	83.7	86.7	88.6							115.8
LOC SCHENECTADY	200	74.0	73.7	75.4	76.1	79.0	80.7	81.2	83.2	84.7	87.4	89.8							116.6
DATE 1/8/75	250	77.0	77.5	79.2	80.1	81.5	82.5	83.4	84.2	84.9	87.7	88.8							117.8
RUN 44/6	315	78.5	79.0	80.2	80.4	81.5	82.7	82.7	84.2	84.9	87.2	87.8							118.9
TAPE	400	77.1	77.2	77.9	78.9	80.3	81.2	82.4	82.9	83.8	86.2	88.1							115.7
BAR 29.9 HG	500	75.3	75.3	77.2	78.9	80.5	81.3	82.7	82.9	83.7	84.9	85.1							115.3
(100800. N/M2)	630	76.4	77.3	79.2	80.7	82.6	83.5	84.9	85.4	85.7	85.7	84.8							116.9
TAMB 90. DEG F	800	77.1	78.3	79.9	81.7	82.6	83.8	84.9	86.2	85.9	85.7	84.6							117.2
(283. DEG K)	1000	76.9	78.5	81.2	81.2	82.6	83.5	85.7	86.7	86.7	83.9	82.6							117.5
THET 45. DEG F	1250	78.6	80.8	82.4	82.7	85.1	86.5	87.7	88.7	88.2	84.5	82.8							119.4
(280. DEG K)	1600	81.1	83.5	85.2	86.0	88.1	88.8	89.9	90.9	89.7	85.2	82.8							121.6
HACT 6.37 GM/M3	2000	86.6	88.8	91.4	93.0	95.6	97.3	99.4	98.4	97.9	93.0	91.1							129.8
(.00637 KG/M3)	2500	82.4	86.8	88.1	91.1	92.7	94.8	96.1	95.8	92.9	89.8	85.1							126.5
NPA 7865. RPM	3150	82.1	86.3	88.9	92.1	95.2	96.3	98.3	98.1	94.4	90.9	88.0							127.6
(823. RAD/SEC)	4000	87.1	88.8	92.8	97.3	98.4	102.0	103.5	102.6	103.4	98.2	96.5							133.9
NFK 7934. RPM	5000	84.3	88.2	91.2	94.0	97.3	100.2	99.4	99.2	94.8	91.4	87.2							130.4
(831. RAD/SEC)	6300	88.6	91.5	94.9	97.9	101.7	107.2	103.2	103.0	97.8	93.8	89.8							138.4
NFB 8823. RPM	8000	83.9	87.2	92.7	97.8	100.4	100.3	101.2	100.8	96.8	93.8	89.3							132.2
(924. RAD/SEC)	10000	81.4	85.7	90.5	95.2	96.4	99.2	102.2	100.5	98.9	92.3	88.3							131.3
NO. OF BLADES 15	12500	80.9	84.4	88.6	93.0	97.3	99.6	102.3	101.3	98.2	91.5	87.3							131.8
FAN TIP SPEED	16000	77.1	80.8	85.2	89.1	93.0	95.9	98.9	97.9	92.8	88.8	84.5							127.9
887. FT/SEC	20000	75.1	78.9	84.1	88.3	91.9	93.7	96.1	95.0	92.5	87.9	83.3							127.7
	25000	73.6	77.2	82.3	87.1	90.8	92.5	95.1	97.1	92.4	87.2	82.1							127.3
	31500	72.6	76.3	81.5	85.8	89.0	91.7	93.8	94.9	90.8	85.8	79.5							126.7
	40000	71.8	75.8	78.5	82.8	86.3	88.8	91.0	91.1	88.0	83.5	74.3							125.8
	50000	69.7	78.3	78.8	78.9	83.0	85.7	87.7	87.2	83.8	80.6	70.9							123.4
	63000	78.0	66.9	72.9	73.8	80.1	81.8	81.7	80.8	77.8	74.8	69.5							121.8
	80000	73.9	71.8	72.7	71.5	80.1	81.1	78.8	79.8	73.6	72.3	70.6							123.1
OVERALL MEASURED																			
OVERALL CALCULATED		95.6	98.4	101.8	105.3	108.1	111.2	111.3	111.8	108.2	104.3	102.3							142.4
	PWL	108.9	111.5	114.5	117.8	120.3	124.8	123.4	123.8	122.3	118.4	116.5							

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OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (99. LEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.59)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	46.7	50.0	52.4	52.8	54.1	54.2	53.0	52.4	54.0	57.3	57.2						
VEHICLE R-55 125	52.4	54.9	56.8	56.0	57.3	56.1	55.4	56.0	56.7	57.1	56.2						
CONFIG 2-D 160	51.3	53.1	54.3	54.9	56.0	55.8	56.8	57.4	56.1	56.7	56.7						
LOC SCHENECTADY 200	50.7	51.3	53.4	54.3	57.1	58.5	58.2	59.1	59.0	59.3	57.5						
DATE 1/8/75 250	53.6	54.9	57.1	58.2	59.5	60.1	60.4	60.0	59.1	59.4	58.2						
RUN 44/4 315	55.0	56.3	58.0	58.4	59.5	60.3	59.5	59.9	59.0	58.7	55.0						
TAPE 400	53.4	54.5	55.7	56.8	58.1	58.7	59.2	58.5	57.8	57.8	53.2						
BAR 29.9 MG 500	51.6	52.4	54.8	56.8	58.3	58.8	59.3	58.4	57.4	56.1	51.9						
(99800. N/M2) 630	52.5	54.3	56.7	58.4	60.2	60.8	60.5	60.0	59.3	58.7	51.1						
TAMB 90. DEG F 800	53.1	55.2	57.4	59.3	60.1	60.7	61.3	61.4	59.4	58.4	50.8						
(283. DEG K) 1000	52.7	55.3	58.5	58.7	60.0	60.6	61.9	61.7	59.9	54.4	48.7						
THET 45. DEG F 1250	54.4	57.4	59.6	60.1	62.4	63.4	63.8	63.5	61.2	54.7	48.3						
(280. DEG K) 1600	56.7	60.0	62.2	63.2	65.3	65.5	65.8	65.0	62.5	55.1	47.8						
HACT 6.37 GM/MJ 2000	61.9	65.1	68.2	70.1	72.8	73.8	75.1	72.8	70.4	62.5	55.5						
(.00637 KG/MJ) 2500	57.5	62.9	64.8	67.9	69.4	71.2	71.6	69.8	69.2	57.9	48.9						
NFA 7865. RPM 3150	56.9	62.1	65.2	68.7	71.7	72.4	71.5	69.9	68.2	58.6	49.1						
(823. RAD/SEC) 4000	61.3	64.1	68.7	73.5	74.5	77.6	78.2	76.1	74.5	66.9	58.3						
NFK 7934. RPM 5000	58.2	63.3	66.9	74.0	73.2	75.6	73.9	72.2	69.9	58.7	48.2						
(831. RAD/SEC) 6300	61.7	65.8	69.9	73.1	76.8	81.8	76.6	75.1	67.5	59.5	48.7						
NFB 8823. RPM 8000	55.8	60.3	66.6	71.8	74.4	73.8	73.6	71.1	64.9	57.2	48.1						
(924. RAD/SEC) 10000	51.5	57.2	62.8	67.8	69.8	71.1	72.9	69.2	61.7	53.9	39.8						
NO. OF BLADES 15 12500	48.4	53.5	58.6	63.4	67.6	69.1	70.5	67.2	57.6	47.7	31.9						
FAN TIP SPEED 16000	46.3	49.8	51.5	58.0	59.7	60.8	61.0	59.0	49.4	37.5	18.3						
887. FT/SEC 20000	32.0	39.0	45.6	50.4	53.7	54.4	54.7	53.8	41.7	27.2	2.9						
25000	23.1	30.8	36.9	42.4	45.0	46.1	45.9	43.3	31.1	12.8							
31500	10.2	18.3	25.9	31.8	34.8	34.8	33.0	28.1	14.8								
40000			7.9	13.8	16.4	16.3	13.8	5.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.7	73.3	77.8	80.4	82.9	83.6	84.3	82.3	78.8	72.2	66.8						
PNdB	83.4	86.6	90.5	94.1	96.8	99.2	98.2	96.3	93.7	86.6	79.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 HR. 12.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	59. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.3	72.0	73.9	74.1	75.5	76.5	76.2	76.4	79.4	84.7	88.3							112.9
125	76.3	77.0	78.7	78.9	78.5	77.5	78.2	80.4	82.4	85.2	88.1							114.5
160	74.5	75.8	76.4	76.6	77.3	78.2	79.4	81.2	83.4	86.4	88.8							114.9
200	73.8	73.2	75.2	76.4	78.8	81.2	80.9	83.2	85.2	88.2	89.6							116.2
250	76.4	77.0	79.7	80.1	81.5	82.2	82.9	84.2	85.2	87.7	88.8							116.9
315	79.0	79.0	80.2	80.6	81.8	82.5	82.9	84.2	84.9	87.4	87.6							117.0
400	76.8	77.0	78.4	78.7	80.5	81.2	82.7	83.2	84.2	86.2	86.6							115.8
500	75.3	75.3	77.4	78.9	80.0	81.0	82.4	82.7	83.4	84.9	84.8							115.1
630	76.1	76.8	79.4	80.7	82.8	83.5	84.2	84.9	85.4	86.0	85.3							116.9
800	77.4	78.0	80.7	81.7	83.1	83.5	84.7	86.4	86.2	85.4	84.6							117.4
1000	77.1	78.5	81.4	81.7	82.3	83.6	85.2	86.4	85.9	83.9	83.1							117.3
1250	78.1	80.8	82.7	82.7	84.8	86.0	87.9	88.2	87.4	85.0	83.1							119.2
1600	80.9	83.8	84.9	85.5	88.1	89.3	89.9	90.7	89.9	85.2	82.8							121.7
2000	86.1	88.8	91.9	93.0	95.9	97.3	99.4	98.1	97.9	93.0	90.3							129.0
2500	82.8	87.3	88.4	91.3	93.2	94.6	96.1	95.6	92.9	88.3	85.6							126.6
3150	81.9	85.6	89.1	92.1	94.7	96.3	96.3	96.3	94.7	90.9	88.5							127.6
4000	87.6	89.3	93.0	97.6	97.9	102.0	104.3	103.3	103.4	98.7	96.2							134.2
5000	83.8	87.7	91.2	94.0	97.1	100.0	99.7	99.4	94.8	91.9	87.2							130.4
6300	89.3	92.8	94.9	98.2	101.7	107.2	103.2	103.8	97.6	94.1	89.3							135.4
8000	84.7	87.4	92.7	97.4	100.1	100.6	102.0	100.2	96.4	93.3	89.8							132.3
10000	81.2	85.5	91.5	94.9	96.9	99.2	102.0	100.7	96.5	92.3	88.0							131.5
12500	80.6	84.4	89.8	92.7	97.3	99.1	102.8	101.8	95.5	91.2	87.0							132.8
16000	77.4	80.8	85.2	89.1	93.3	95.5	98.9	98.4	93.3	88.6	84.2							128.2
20000	75.8	78.7	84.1	88.0	91.8	93.9	96.6	96.2	93.0	88.1	83.0							126.8
25000	73.9	77.2	82.5	86.6	90.2	92.3	95.8	96.8	92.4	88.7	81.9							127.3
31500	73.1	76.8	81.2	85.9	89.5	91.5	93.8	94.9	91.3	85.9	79.8							126.0
40000	71.0	73.9	79.0	83.1	85.8	89.0	90.7	92.1	88.3	83.5	78.1							123.3
50000	70.7	70.3	76.0	79.1	83.3	85.4	87.7	87.7	84.3	80.4	71.7							123.5
63000	71.0	68.2	72.8	73.5	81.3	82.3	81.7	81.0	77.8	74.8	69.8							121.4
80000	74.4	71.0	72.9	71.8	80.6	81.6	78.5	76.0	73.6	72.8	71.3							123.5
OVERALL MEASURED	98.8	98.5	102.1	105.4	108.1	111.2	111.0	111.1	108.3	104.5	102.2							142.6
OVERALL CALCULATED																		
PNOW	109.2	111.7	114.7	118.0	120.2	124.0	123.8	123.2	122.3	118.7	118.4							

VEHICLE R-58
CONFIG TP 26
LOC SCHENECTADY
DATE 1/8/75
RUN 44/5
TAPE
BAR 29.9 MG
(98000. N/M2)
TAMB 50. DEG F
(283. DEG K)
TWET 45. DEG F
(280. DEG K)
MACT 6.37 GM/M3
(.00837 KG/M3)
NFA 7865. RPM
(823. RAD/SEC)
NFK 7934. RPM
(831. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
667. FT/SEC

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.2	49.8	52.2	52.6	53.9	54.5	53.5	52.6	54.1	57.0	56.9						
125	53.1	54.7	56.8	55.2	56.8	55.4	55.4	56.6	57.8	57.4	56.5						
160	51.3	53.3	54.5	54.9	55.5	56.0	56.6	57.2	57.0	56.5	56.7						
200	56.5	56.6	53.2	54.6	56.9	59.0	56.0	59.1	59.5	60.1	57.5						
250	53.4	54.4	57.6	58.2	59.5	59.9	59.9	60.0	59.3	59.4	56.2						
315	55.5	56.3	56.6	56.7	59.7	60.0	59.8	59.9	59.9	59.0	55.6						
400	53.2	54.2	56.2	56.6	58.4	58.7	59.4	58.8	58.1	57.6	53.7						
500	51.6	52.4	55.1	56.8	57.6	58.4	59.1	58.2	57.2	56.1	51.7						
630	52.3	53.8	57.0	58.4	60.2	60.8	60.7	60.3	59.8	58.9	51.8						
800	53.4	54.9	58.1	59.3	60.6	60.7	61.1	61.6	59.6	56.2	50.6						
1000	53.0	55.3	58.7	59.2	59.7	60.8	61.4	61.5	59.2	54.4	48.9						
1250	53.9	57.4	59.6	60.1	62.1	62.9	64.0	63.0	60.5	55.2	48.5						
1600	56.4	60.2	61.9	62.7	65.3	66.0	65.8	65.3	62.7	55.1	47.0						
2000	61.4	65.1	66.7	70.1	72.8	73.8	73.1	72.0	70.4	62.5	54.7						
2500	57.7	63.4	65.8	66.2	69.9	70.9	71.6	69.8	65.2	57.4	49.4						
3150	56.6	61.3	65.5	66.7	71.2	72.4	71.9	70.2	66.5	58.6	49.6						
4000	61.8	64.6	69.8	73.7	74.3	77.6	79.8	76.6	74.5	66.5	58.8						
5000	57.7	62.8	66.9	70.8	72.9	75.3	74.1	72.4	69.8	59.2	48.2						
6300	62.5	66.3	69.9	73.4	76.8	81.8	76.8	75.1	67.5	60.8	48.2						
8000	56.5	60.6	66.6	71.5	74.2	74.3	74.4	70.9	64.4	57.8	45.6						
10000	51.3	57.8	63.8	67.6	69.5	71.1	72.7	69.4	62.2	53.8	38.3						
12500	48.1	53.5	59.6	63.2	67.6	68.6	71.8	67.7	57.7	47.4	31.7						
16000	46.6	49.8	51.5	56.8	59.9	61.3	61.8	59.5	49.9	37.5	18.1						
20000	33.1	38.7	45.8	50.1	53.7	54.7	55.2	53.2	42.2	27.4	2.7						
25000	23.3	30.8	37.1	41.9	45.2	45.9	46.4	43.8	31.1	12.4							
31500	10.7	18.8	28.7	31.3	34.5	34.3	33.3	20.1	14.8								
40000			8.4	13.7	15.9	16.6	13.3	8.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.8	73.4	77.2	80.4	82.8	83.6	84.6	82.4	78.6	72.4	66.9						
PNdB	83.6	86.8	90.7	94.3	95.9	96.2	96.6	96.6	93.7	86.8	79.1						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 18 HR. 12.3

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 78 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.5	72.5	76.2	78.4	78.5	77.3	75.2	70.4	71.2	78.4	77.6							110.3
VEHICLE R-SS	125	69.5	68.0	69.8	67.9	72.5	66.8	68.4	72.2	72.7	73.7	76.1							109.8
CONFIG	160	65.8	66.3	67.7	67.1	68.3	66.8	69.4	71.7	73.2	75.7	76.6							104.5
LOC SCHENECTADY	200	65.3	65.8	66.2	67.4	69.5	71.0	71.9	73.8	74.4	76.8	77.6							105.9
DATE 3/8/75	250	67.5	67.7	69.7	70.9	71.5	72.3	73.4	73.2	73.9	75.4	76.3							106.2
RUN 44/6	315	68.8	69.2	71.2	72.1	72.8	72.8	73.7	74.2	74.9	76.2	75.8							108.9
TAPE	400	67.8	67.7	69.4	70.7	71.3	72.5	73.7	74.4	75.2	75.4	74.6							108.4
BAR 29.9 HG	500	66.1	66.8	68.4	70.7	71.6	72.5	73.9	73.7	73.7	74.2	73.3							105.8
(100880. N/M2)	630	67.4	68.8	70.7	72.7	74.1	75.3	76.2	76.4	76.8	77.5	74.8							108.4
TAMB 90. DEG F	800	68.6	70.3	72.4	74.2	74.8	75.6	76.9	76.4	78.9	77.4	73.8							109.5
(283. DEG K)	1000	69.1	70.7	73.9	74.4	74.6	76.8	76.2	78.7	80.7	78.4	74.1							110.6
TWET 49. DEG F	1250	75.6	78.3	80.4	83.2	83.9	87.3	88.7	88.9	88.9	86.2	80.6							119.8
(280. DEG K)	1600	75.1	78.3	79.4	81.8	82.6	85.1	86.6	87.2	86.4	83.8	77.3							117.8
HACT 6.37 GM/M3	2000	73.4	75.6	76.9	78.3	80.9	83.6	85.4	85.1	85.2	81.2	78.8							116.8
(.00637 KG/M3)	2500	77.4	79.8	81.1	80.6	87.2	90.4	93.1	90.1	90.4	94.8	89.6							125.4
NFA 5503. RPM	3150	75.1	78.3	80.1	84.3	86.7	88.6	91.3	92.8	93.2	89.5	85.3							122.6
(576. RAD/SEC)	4000	76.8	81.8	83.3	86.1	91.6	91.1	91.8	94.3	91.6	85.7	82.8							123.8
NFK 5551. RPM	5000	73.3	77.7	79.7	84.8	87.1	89.8	91.2	91.4	91.8	86.2	81.2							121.8
(581. RAD/SEC)	6300	73.8	76.5	78.9	84.4	86.7	90.7	90.9	93.2	91.1	84.9	81.3							122.4
NFB 8823. RPM	8000	70.9	74.4	76.8	81.9	84.9	89.4	89.5	90.2	88.7	83.3	79.8							120.4
(924. RAD/SEC)	10000	66.7	71.7	75.9	80.7	84.2	88.7	88.8	89.2	86.5	83.8	78.5							119.3
NO. OF BLADES 15	12500	67.9	69.9	73.1	79.2	82.6	85.6	87.1	87.6	86.7	81.0	77.8							116.1
FAN TIP SPEED	16000	65.1	66.9	69.9	75.1	79.8	82.3	83.9	85.6	84.8	78.6	74.5							113.7
680. FT/SEC	20000	64.6	65.2	66.4	74.8	77.1	80.8	82.9	84.5	83.7	77.9	72.3							114.6
	25000	64.1	65.8	66.8	72.1	75.5	77.8	78.8	81.8	81.4	75.2	70.1							112.9
	31500	64.4	64.6	66.5	71.1	75.8	77.8	79.3	80.9	80.3	74.4	68.5							113.1
	40000	65.3	64.4	66.5	69.3	72.9	74.3	76.5	77.8	77.3	72.7	66.6							111.8
	50000	66.2	66.5	66.8	69.1	71.8	72.8	74.2	73.7	73.3	70.1	67.2							111.3
	63000	78.5	66.7	76.8	69.8	70.6	71.4	71.2	71.8	69.8	78.8	69.8							113.1
	80000	73.4	78.8	72.4	76.5	78.8	71.6	71.8	71.3	78.3	71.3	78.6							116.2
OVERALL MEASURED																			
OVERALL CALCULATED		66.2	68.8	91.8	94.8	97.2	99.3	188.8	182.5	181.8	98.1	94.1							133.8
	PNBW	99.2	182.8	184.7	184.8	111.4	112.3	113.6	115.8	115.5	112.8	188.5							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 10 HR. 12.3

MODEL SOUND PRESSURE LEVELS 100. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.09)	120. (2.24)	130. (2.42)	140. (2.64)	150. (2.78)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	45.5	50.3	56.4	57.8	56.9	55.2	52.5	46.6	45.8	47.0	40.2						
VEHICLE R-55	125	46.4	45.7	48.1	46.2	50.8	48.7	45.7	46.3	47.2	45.9	44.9						
CONFIG 9P 26	160	42.8	43.8	45.8	45.4	48.2	45.8	46.8	47.7	47.8	47.7	46.7						
LOC SCHENECTADY	200	42.8	42.5	44.2	43.6	47.6	48.7	48.8	49.6	48.7	48.6	45.7						
DATE 1/8/75	250	44.1	45.2	47.6	47.8	49.8	49.9	50.4	49.8	48.1	47.1	44.8						
RUN 44/6	315	45.3	46.6	49.8	50.2	50.9	50.3	50.5	49.9	49.8	47.7	43.2						
TAPE	400	43.9	45.8	47.2	48.6	49.2	50.8	50.4	50.8	49.1	48.8	41.7						
BAR 29.9 MG	500	42.4	43.8	46.1	46.5	49.3	49.8	50.8	49.2	47.4	45.4	40.2						
(99830. N/M2)	630	43.5	45.8	48.2	50.4	51.7	52.6	52.7	51.8	50.5	48.4	41.1						
TAMB 50. DEG F	800	44.8	47.2	49.9	51.8	52.4	52.7	53.3	53.8	52.4	48.2	40.8						
(283. DEG K)	1000	45.8	47.5	51.2	51.9	52.2	53.8	54.4	54.7	53.9	48.9	39.9						
TWET 45. DEG F	1250	51.4	54.9	57.8	60.8	61.2	64.2	64.8	63.8	62.8	56.4	46.8						
(280. DEG K)	1600	58.7	54.7	56.4	58.2	59.8	61.8	62.6	61.8	59.2	52.9	42.3						
HACT 0.37 GM/M3	2000	48.7	51.8	53.7	55.3	57.8	60.1	61.1	59.8	57.7	50.8	41.8						
(.00037 KG/M3)	2500	52.5	55.9	57.8	63.4	63.9	66.7	66.8	78.3	66.7	63.2	53.4						
NFA 5503. RPM	3150	49.9	54.1	56.5	60.9	63.2	64.8	64.5	66.7	65.8	58.1	48.3						
(576. RAD/SEC)	4000	51.1	57.1	59.2	64.2	67.7	68.7	68.5	67.8	62.8	53.5	43.8						
NFK 9951. RPM	5003	47.2	52.8	55.4	68.8	62.9	64.4	65.8	64.4	62.6	53.4	42.2						
(501. RAD/SEC)	6300	47.8	50.8	54.9	59.8	61.8	65.4	64.8	69.3	66.7	58.7	48.2						
NFB 8823. RPM	8000	42.8	47.6	51.8	56.8	58.9	62.9	61.9	60.9	58.7	47.8	38.3						
(924. RAD/SEC)	10000	38.8	43.2	47.3	53.3	56.7	58.6	58.7	57.9	54.2	44.2	29.8						
NO. OF BLADES 18	12500	35.4	39.8	43.1	49.7	52.9	55.2	55.3	53.4	49.8	37.2	21.7						
FAN TIP SPEED	16000	30.3	32.1	38.3	42.8	45.7	48.1	48.8	48.8	41.4	27.8	8.3						
488. FT/SEC	20000	22.1	25.2	29.8	38.1	38.8	48.7	41.5	39.8	33.8	17.2							
	25000	13.8	17.7	21.4	27.4	38.3	31.4	38.7	27.8	28.1	8.9							
	31500	2.8	8.5	18.8	18.8	28.8	28.1	18.8	14.1	3.8								
	40000					2.8	1.8											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		88.8	84.4	87.1	78.8	73.8	74.5	78.2	78.8	73.1	68.8	88.2						
	PNOB	73.7	76.3	88.7	84.8	87.6	88.8	88.7	88.4	87.3	81.3	71.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MARCH 3 DAY 31 PR. 14.3

PSEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. 160.	0. 170.	0. 180.	0. 190.	0. 200.	0. 210.	PWL
50																		
63																		
RADIAL 17. FT. 66																		
(5. M) 100	87.2	87.6	81.2	78.9	77.3	77.8	74.9	78.2	72.2	70.4	70.1							113.8
VEHICLE A-55 125	88.8	85.9	84.4	87.9	72.5	89.9	88.4	71.4	73.7	74.4	78.1							118.4
CONFIG 160	84.5	82.3	81.9	88.2	87.3	87.8	89.9	71.2	73.2	73.9	78.3							188.3
LOC SCHENECTADY 200	84.4	83.7	82.7	87.7	78.8	71.3	72.7	74.2	75.4	77.9	78.8							118.2
DATE 1/9/75 250	86.4	84.7	83.2	78.4	71.8	71.8	73.2	73.7	74.2	75.9	78.3							118.8
RUN 43/4 315	88.5	88.7	88.2	71.7	72.3	73.8	73.4	74.4	75.2	78.2	78.3							112.2
TAPE 400	87.2	83.5	84.8	88.8	71.5	72.5	73.4	74.7	75.7	75.7	74.3							188.8
BAR 28.7 MB 500	85.5	83.8	83.2	88.2	71.3	71.8	73.7	73.4	74.2	74.7	73.3							188.8
(88228. N/M2) 630	87.3	84.5	85.9	72.7	74.1	75.3	78.4	78.7	77.4	77.5	74.8							111.5
TAMB 48. DEG F 800	87.8	84.5	88.7	73.5	74.1	75.1	77.2	78.4	78.4	78.2	74.3							111.8
(283. DEG K) 1888	88.5	85.7	87.8	73.7	74.8	78.8	78.4	88.2	88.8	78.8	73.8							113.1
TMET 48. DEG F 1258	78.1	82.5	83.4	81.3	83.4	84.6	88.8	88.2	88.7	85.5	81.1							121.3
(281. DEG K) 1688	73.8	81.8	83.4	88.8	83.4	84.8	88.8	88.7	87.2	83.2	77.8							118.7
HACT 7.26 GM/M3 2888	72.3	88.1	82.2	77.8	81.8	83.4	85.4	85.4	88.2	81.5	78.3							118.3
(.88728 KG/M3) 2588	78.4	84.8	85.1	83.8	87.7	88.1	88.4	91.8	88.4	88.7	82.3							123.8
NFA 5518. RPM 3158	73.8	83.8	84.8	83.4	87.4	88.8	88.4	88.8	91.2	84.7	81.8							122.7
(577. RAD/SEC) 4888	78.2	181.5	72.8	83.3	85.8	88.8	88.8	92.8	83.1	88.7	82.7							128.3
NFK 9564. RPM 5888	73.2	83.2	88.7	88.3	87.8	88.2	88.8	91.2	91.8	88.4	78.8							123.1
(583. RAD/SEC) 6388	73.7	82.8	84.8	83.8	88.4	91.2	88.7	83.7	91.8	84.8	88.8							123.8
NFB 8823. RPM 8888	78.3	88.8	82.7	82.4	85.8	88.1	87.8	88.2	88.8	83.3	78.3							128.7
(924. RAD/SEC) 18888	88.3	87.4	88.8	81.8	84.8	88.8	88.7	88.8	88.2	83.5	77.4							126.2
NO. OF BLADES 15 12588	88.4	85.3	88.2	78.8	83.2	85.3	87.2	88.2	87.1	81.8	78.8							118.8
FAN TIP SPEED 18888	83.8	82.5	88.3	73.3	78.1	81.2	84.3	85.2	84.2	77.8	73.8							118.8
481. FT/SEC 28888	81.8	88.8	84.8	73.8	78.7	88.8	82.2	84.8	83.1	77.2	71.8							118.1
25888	88.8	88.8	84.8	78.8	78.2	78.8	78.1	88.8	81.2	78.8	88.2							113.4
31588	88.8	88.5	84.7	88.8	73.7	78.2	78.8	78.8	78.3	73.1	87.3							113.3
48888	88.8	88.3	88.2	88.8	71.8	73.5	74.8	78.8	78.2	71.8	88.8							112.8
58888	81.2	82.7	88.7	84.8	88.4	71.3	72.8	73.3	72.8	78.2	85.8							114.8
63888	82.4	83.4	81.8	83.3	88.8	71.1	78.8	78.2	88.2	78.8	87.8							117.8
68888	84.8	84.7	82.3	84.8	78.3	72.8	71.8	71.4	78.7	71.4	78.2							122.7
OVERALL MEASURED																		
OVERALL CALCULATED	88.2	185.3	77.2	88.3	88.2	188.4	181.1	181.1	181.2	88.8	82.8							134.8
PNDB	88.8	128.4	81.8	111.3	114.8	114.8	118.2	113.8	114.3	188.1	188.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 21 NO. 14.2

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.7)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.2	69.5	39.4	55.4	58.6	53.8	52.2	48.4	46.8	48.8	48.7						
125	44.8	62.7	34.8	46.3	56.8	46.8	45.7	47.6	48.2	48.8	44.9						
160	41.2	58.8	38.8	44.5	45.5	45.8	47.1	47.2	47.6	48.8	44.9						
200	41.1	61.3	38.7	45.9	48.1	49.8	49.7	50.1	49.7	48.8	48.7						
250	43.8	62.2	33.1	48.5	48.1	49.4	58.1	49.5	48.3	47.8	44.8						
315	45.8	64.1	34.8	49.7	56.2	56.8	58.3	58.1	49.2	47.7	43.7						
400	43.8	68.7	32.7	47.9	49.4	56.8	58.2	58.3	49.8	47.1	41.9						
500	41.8	68.9	38.8	47.1	49.1	48.8	58.3	48.9	47.9	48.9	48.2						
630	43.4	61.3	33.5	58.5	51.7	53.6	53.8	52.8	51.8	48.4	41.4						
800	43.8	61.4	34.1	51.1	51.6	52.2	53.8	53.8	52.9	48.9	48.8						
1000	44.4	62.5	35.2	51.2	52.9	53.8	54.7	55.2	54.2	49.4	39.7						
1250	58.8	68.2	48.6	58.7	62.8	63.5	65.8	64.8	63.7	58.7	48.8						
1600	49.3	66.2	46.4	57.8	64.5	61.6	62.6	61.3	68.8	53.1	42.8						
2000	47.8	66.3	39.8	58.8	58.8	68.1	61.3	68.1	57.7	51.6	46.7						
2500	51.7	78.9	41.8	68.7	64.4	65.4	65.9	65.8	63.7	55.9	48.2						
3150	49.8	69.8	41.2	68.2	63.9	64.9	65.8	63.7	63.8	53.3	44.1						
4000	58.5	78.8	48.7	69.5	71.9	71.4	78.7	68.3	64.2	54.4	44.8						
5000	47.1	68.3	41.4	61.2	63.7	69.1	69.4	64.1	61.8	52.7	41.8						
6300	48.9	68.3	38.9	58.1	63.6	65.8	64.3	68.8	68.7	58.7	38.8						
8000	42.2	62.8	38.5	58.5	59.8	61.8	68.3	68.8	58.9	48.9	38.8						
10000	38.4	58.9	33.2	54.5	57.1	58.8	58.4	57.3	54.8	44.1	28.7						
12500	35.4	54.4	28.3	58.4	53.5	54.8	55.4	54.1	48.4	37.8	28.8						
16000	27.1	47.7	22.7	42.1	45.8	46.9	48.3	48.4	48.8	28.8	7.8						
20000	19.1	48.8	16.5	38.7	38.8	48.8	48.8	39.8	32.3	18.8							
25000	18.3	33.5	8.4	28.2	38.3	38.4	29.8	27.1	19.8	8.8							
31500		22.5		18.3	18.7	19.3	17.8	12.8	3.4								
40000		8.2			1.1	1.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.8	88.8	52.8	72.3	78.1	78.7	78.3	73.8	72.2	64.3	58.8						
PNDB	73.8	96.8	67.8	67.6	98.2	98.8	98.1	87.1	88.8	77.8	68.8						

SIDELINE 200. FT. (68.88 M)
VEHICLE C-55
CONFIG 29
LOC SCHENECTADY
DATE 1/9/75
RUN 45/4
TAPE
BAR 29.7 HG (100220. N/M2)
TAMB 49. DEG F (283. DEG K)
TJET 46. DEG F (281. DEG K)
WACT 7.26 GM/S (.00720 KG/M3)
NFA 5510. RPM (577. RAD/SEC)
NFR 5504. RPM (963. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 481. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 NO. 14.3

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.79)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. RI)	100	89.0	87.0	90.2	73.1	75.3	79.8	73.9	72.7	73.9	77.9	80.0							112.8
VEHICLE R-55	125	89.0	85.0	87.7	78.9	73.3	72.3	71.7	74.4	78.2	78.2	80.0							111.0
CONFIG [illegible]	160	87.2	84.8	84.4	78.1	78.5	71.8	73.4	74.9	78.7	79.2	80.3							110.9
LOC SCHENECTADY	200	87.2	83.2	84.9	78.9	73.8	74.5	73.4	77.2	78.7	80.7	82.3							111.5
DATE 1/0/75	250	89.7	85.7	87.4	73.4	74.9	75.5	78.2	78.7	78.2	79.7	80.1							112.0
RUN 45/5	315	71.7	87.7	90.8	75.1	75.8	77.3	78.4	77.4	78.4	79.9	79.8							114.0
TAPE	400	78.2	80.8	87.2	74.1	74.3	77.8	78.2	77.4	78.2	78.9	78.1							112.7
BAR 29.7 MG	500	80.3	84.3	85.8	72.7	74.3	74.5	78.7	78.7	77.7	78.4	78.8							111.7
(98220. N/M2)	630	78.3	87.8	88.7	75.7	77.3	78.6	79.2	79.9	80.4	80.8	78.1							114.3
TAMB 40. DEG F	800	78.5	87.8	88.4	78.7	77.3	78.3	79.7	81.4	81.4	78.9	77.1							114.9
(283. DEG K)	1000	71.8	84.8	88.4	78.4	77.3	79.1	80.4	81.7	82.9	79.7	78.3							113.2
THET 40. DEG F	1250	73.1	81.3	82.4	79.8	81.4	82.8	84.4	85.7	85.9	81.7	78.1							110.8
(281. DEG K)	1600	81.4	88.3	78.2	87.8	88.1	91.4	92.4	91.9	91.9	88.7	88.8							120.3
MACT 7.26 GM/M3	2000	78.1	83.8	84.2	83.8	85.4	86.4	89.4	88.9	88.2	82.7	78.4							121.7
(.00720 SC/M3)	2500	75.3	89.1	88.8	85.8	87.7	88.8	91.4	90.4	88.7	84.7	80.3							123.8
NFA 6298. RPM	3150	78.3	87.8	89.4	89.3	91.7	93.8	93.8	93.3	93.7	93.8	87.8							127.8
(659. RAD/SEC)	4000	77.8	86.5	89.5	88.8	91.4	93.3	94.8	93.7	92.8	88.7	82.7							126.1
NFC 6352. RPM	5000	82.4	88.8	73.7	88.8	84.1	100.8	88.7	87.4	84.8	88.8	84.4							120.8
(665. RAD/SEC)	6300	78.4	87.8	78.2	88.8	88.7	92.5	84.4	85.8	83.8	87.3	82.7							120.8
NFB 6823. RPM	8000	74.3	83.8	84.8	87.8	88.1	92.6	84.4	83.2	82.1	88.8	81.8							120.3
(826. RAD/SEC)	10000	73.3	82.7	84.8	87.8	88.8	92.8	82.7	84.1	82.7	88.8	81.2							120.1
NO. OF BLADES 18	12500	71.5	88.8	85.8	84.8	87.5	88.8	83.8	82.4	88.8	84.8	79.2							123.4
FAN TIP SPEED	16000	87.7	86.7	88.8	81.8	83.8	86.7	86.3	88.5	87.8	81.7	78.4							128.8
549. FT/SEC	20000	85.4	84.8	88.2	79.3	82.4	84.5	87.2	89.1	87.1	88.7	75.1							119.8
	25000	83.8	83.3	58.3	77.1	78.7	82.1	85.1	88.6	84.7	78.5	72.4							118.8
	31500	82.3	82.3	84.7	75.8	78.2	88.7	83.8	84.6	83.3	77.1	78.8							117.3
	40000	88.9	81.3	58.2	73.2	75.5	78.8	88.8	81.2	79.8	74.9	67.8							116.1
	50000	82.8	82.7	87.7	71.8	73.2	75.1	77.4	77.3	78.2	72.8	88.3							116.3
	63000	84.9	83.2	88.5	78.2	88.8	72.3	72.4	72.7	71.2	71.8	87.8							117.8
	80000	87.7	85.4	82.3	71.1	78.8	72.3	71.9	72.2	78.7	72.2	78.2							123.4
OVERALL MEASURED																			
OVERALL CALCULATED		88.8	187.2	88.6	98.3	188.9	184.3	184.8	184.8	183.4	88.6	84.7							137.8
	PNBB	182.8	128.4	93.8	111.8	113.9	118.8	117.8	117.2	118.6	112.9	188.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG TDA 29
LOC SCHENECTADY
DATE 1/9/75
RUN 45/5
TAPE
BAR 29.7 MG (100228. N/M2)
TAMB 49. DEG F (283. DEG K)
THET 46. DEG F (281. DEG K)
MACT 7.26 GM/M3 (.00726 KG/M3)
NFA 6290. RPM (659. RAD/SEC)
NFK 6352. RPM (665. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 549. FT/SEC

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.9	64.8	34.4	51.6	53.8	53.0	51.2	48.9	48.8	50.3	49.2						
125	45.6	63.4	35.8	49.2	51.8	50.2	48.9	50.8	50.7	50.4	49.0						
160	44.0	61.6	32.5	48.4	48.7	49.6	50.6	50.9	51.1	51.2	48.5						
200	43.9	60.8	32.9	49.1	51.1	52.2	52.5	53.1	53.0	52.8	50.2						
250	46.3	63.2	35.3	51.5	52.1	53.2	53.1	52.9	52.3	51.4	47.7						
315	48.2	65.1	36.8	53.2	53.7	54.8	53.3	53.1	52.5	51.8	47.2						
400	46.8	63.2	34.9	51.1	52.2	54.5	52.9	53.0	52.1	50.3	45.2						
500	44.5	61.4	33.8	50.5	52.1	51.9	53.3	52.2	51.4	49.8	43.7						
630	46.4	64.0	36.2	53.4	55.0	56.8	55.7	55.3	54.0	50.9	44.8						
800	46.6	64.7	36.9	54.3	54.9	55.5	56.1	56.8	54.9	50.7	43.3						
1000	46.9	64.8	37.7	53.9	54.7	56.1	56.7	56.7	56.2	50.2	42.2						
1250	48.8	67.9	39.6	56.4	56.6	59.7	60.5	60.5	59.0	51.9	43.8						
1600	57.1	75.7	47.2	64.7	67.3	68.1	68.3	68.0	64.7	56.8	45.8						
2000	51.4	70.1	43.0	60.8	62.3	62.9	63.1	63.3	60.7	52.2	43.0						
2500	50.4	71.1	43.3	62.4	64.6	65.2	66.9	64.6	62.9	53.9	44.2						
3150	53.1	73.6	45.7	65.9	68.2	71.9	70.8	69.2	67.5	61.1	50.1						
4000	51.2	71.8	45.5	65.0	67.4	68.9	68.7	67.8	64.8	54.4	44.8						
5000	56.4	74.5	49.4	65.8	69.9	75.3	73.1	70.4	65.6	56.2	45.8						
6300	49.6	71.3	45.1	64.1	65.8	67.1	68.1	67.8	63.4	53.2	41.7						
8000	46.2	67.8	40.8	61.7	64.1	66.1	66.8	63.8	60.1	49.7	38.8						
10000	43.4	64.2	39.2	60.2	62.4	64.8	63.4	62.8	58.4	47.4	32.4						
12500	38.9	59.7	35.8	55.3	57.8	59.6	60.2	58.3	52.9	40.8	23.8						
16000	30.8	51.9	27.2	47.8	50.6	52.4	52.3	51.6	44.8	30.8	10.2						
20000	23.1	44.6	21.7	41.4	44.3	45.3	45.8	44.8	36.3	20.8							
25000	13.3	36.8	12.9	32.4	36.8	38.7	38.9	32.8	23.3	4.1							
31500		24.2	1.1	21.2	23.2	23.8	22.8	17.9	0.4								
40000		7.2		3.9	5.8	5.8	3.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.8	82.8	55.5	73.9	76.4	79.3	78.8	76.8	73.9	66.7	59.4						
PNDB	76.8	95.8	69.2	87.8	90.8	93.6	92.8	90.8	88.2	81.4	71.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PM, 14.3

MODEL SOUND PRESSURE LEVELS (30. LEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0	0. (0	0. (0	0. (0	0. (0	0. (0	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	88.3	87.3	80.7	76.9	73.5	73.3	73.4	73.7	76.7	81.4	84.0							113.0
VEHICLE N-55	125	75.3	94.8	85.4	78.9	79.8	77.8	79.7	77.9	79.9	81.7	84.1							119.7
CONFIG pwb-29	160	71.8	87.5	80.2	73.8	74.0	74.5	78.7	78.2	80.7	83.2	84.8							114.5
LOC SCHENECTADY	200	72.0	86.2	80.2	73.9	76.3	77.8	78.2	80.4	81.7	84.7	85.8							114.8
ATE 1/9/75	250	74.5	89.5	83.2	77.4	77.8	78.3	79.9	80.4	81.9	83.4	84.3							116.3
A 45/8	315	75.8	91.2	82.4	76.4	76.5	79.8	80.2	80.9	82.2	83.7	83.8							117.5
TAPE	400	74.1	89.5	81.4	75.9	76.8	78.3	79.2	80.2	81.4	82.4	82.1							116.0
BAR 28.7 HG	500	72.3	87.0	80.7	75.7	76.4	77.3	79.7	80.2	80.9	81.9	81.1							114.5
(00228. N/M2)	630	73.0	90.0	81.9	76.4	79.6	80.8	81.9	82.7	83.4	83.0	81.3							117.1
TAMB 50. DEG F	800	74.4	89.5	82.4	79.2	79.8	81.1	82.9	84.2	84.2	82.7	80.8							117.7
(283. DEG K)	1000	74.0	90.7	83.4	79.7	79.3	81.4	83.2	84.2	84.4	82.2	79.3							117.8
THET 48. DEG F	1250	75.6	92.5	84.9	80.2	82.6	84.6	86.2	86.9	86.4	82.5	79.8							119.9
(281. DEG K)	1600	80.9	98.8	70.4	90.5	91.4	93.1	94.1	92.2	92.2	86.2	82.8							120.7
HACT 0.96 GM/M3	2000	82.1	99.8	71.7	90.8	92.4	94.1	96.1	94.1	92.4	87.9	83.6							127.9
(.00096 KG/M3)	2500	78.9	97.8	89.4	88.6	90.7	92.1	93.4	93.1	91.2	85.5	81.8							126.0
NFA 7283. RPM	3150	80.6	99.8	72.4	92.1	92.9	94.8	97.1	99.1	96.9	93.2	88.0							129.5
(762. RAD/SEC)	4000	80.8	100.3	74.0	93.5	94.6	96.0	99.0	100.2	97.1	94.2	88.5							130.6
NFK 7145. RPM	5000	81.7	102.2	77.5	97.3	96.1	100.5	101.7	98.2	96.5	96.9	87.4							132.3
(748. RAD/SEC)	6300	80.3	99.3	72.7	92.1	93.9	96.0	97.2	98.8	94.5	89.8	85.2							125.3
NFB 8023. RPM	8000	79.8	98.2	71.7	92.1	93.1	95.4	96.9	97.2	93.8	89.5	83.8							120.6
(924. RAD/SEC)	10000	77.9	97.4	71.2	91.4	93.1	95.4	96.7	96.7	93.0	89.8	84.0							120.5
NO. OF BLADES 15	12500	76.3	94.8	70.0	89.4	92.5	93.6	95.5	96.0	92.7	87.9	82.2							127.1
FAN TIP SPEED	16000	72.8	91.3	66.8	85.3	88.5	90.7	92.8	93.5	90.8	84.5	79.7							124.5
616. FT/SEC	20000	70.5	89.3	66.0	83.7	86.5	89.3	91.3	93.1	89.8	83.8	78.4							123.7
	25000	69.3	87.3	65.9	82.2	84.8	86.9	89.2	91.7	88.5	82.3	76.5							122.8
	31500	67.5	86.4	65.3	80.2	83.1	85.8	87.4	89.7	87.1	80.7	74.4							121.9
	40000	66.8	83.9	65.6	77.6	79.8	82.6	85.3	85.8	83.8	78.0	69.6							120.2
	50000	67.7	83.1	67.9	74.8	76.6	79.5	82.0	81.5	79.9	75.4	67.2							119.1
	63000	70.0	83.0	69.5	71.3	71.8	74.4	76.0	75.8	73.8	72.6	67.6							118.7
	80000	73.8	85.7	72.1	71.7	71.1	72.8	72.7	73.2	71.3	72.7	70.3							124.1
OVERALL MEASURED		91.6	110.0	84.2	102.0	103.6	106.2	107.9	107.9	105.8	101.6	97.0							140.0
OVERALL CALCULA		84.3	123.3	87.2	110.4	110.4	110.6	120.9	120.7	110.4	110.3	111.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 31 PR. 14.3

MODEL SOUND PRESSURE LEVELS (REF. LEV. P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.2	65.0	38.9	51.3	51.9	51.7	.7	49.9	51.3	53.0	53.2						
125	52.1	72.4	43.0	57.2	58.1	55.7	9	54.1	56.5	58.9	52.5						
160	48.6	65.1	38.3	51.9	52.2	52.3	8	54.2	55.1	55.2	52.7						
200	48.7	63.8	38.2	52.1	54.4	55.5	2.2	56.3	56.0	56.0	53.7						
250	51.1	66.9	41.1	55.5	55.8	55.9	56.9	56.2	56.1	55.1	52.8						
315	52.3	66.6	40.2	56.4	56.5	57.3	57.0	56.6	56.2	55.2	51.2						
400	50.4	66.7	39.2	53.8	54.7	55.8	55.9	55.8	55.4	53.8	49.2						
500	48.8	64.1	38.3	53.5	54.8	54.7	56.3	55.7	54.7	53.1	47.8						
630	48.8	67.8	39.5	56.2	57.8	58.1	58.5	58.0	57.8	53.9	47.9						
800	50.4	67.4	39.8	56.8	57.4	58.2	59.3	59.4	57.8	53.4	47.8						
1000	50.5	67.5	40.7	56.2	56.7	56.8	59.4	59.2	57.7	52.7	45.2						
1250	51.4	69.2	42.1	57.8	59.9	61.5	62.3	61.8	59.5	52.7	45.3						
1600	56.4	75.2	47.4	67.7	68.5	69.8	70.1	68.8	65.8	56.1	47.8						
2000	57.4	76.1	48.5	67.8	69.3	70.6	71.8	68.6	64.9	57.8	48.8						
2500	54.8	73.9	46.8	65.4	67.6	68.4	68.9	67.3	63.4	54.7	45.7						
3150	55.4	75.6	48.7	68.7	69.4	70.9	72.3	72.9	68.7	61.8	51.1						
4000	55.1	75.8	50.8	69.7	70.7	71.7	73.7	73.5	68.2	62.8	50.3						
5000	55.7	77.3	53.2	74.2	71.9	73.8	74.1	71.2	67.3	58.2	48.8						
6300	53.4	73.8	47.8	67.4	69.1	70.6	70.8	70.5	64.2	55.7	44.2						
8000	51.5	71.3	45.5	66.2	67.1	68.8	69.3	67.8	61.8	53.2	39.5						
10000	48.8	68.9	43.5	64.8	65.7	67.3	67.4	65.4	60.8	50.4	38.2						
12500	43.8	63.7	40.1	59.8	62.8	63.1	63.7	61.8	56.9	44.1	28.8						
16000	36.8	56.5	33.2	52.1	55.1	56.5	56.9	54.7	47.1	33.4	18.5						
20000	28.8	49.4	27.5	45.8	48.4	50.1	49.9	46.1	38.8	23.1							
25000	18.7	40.1	20.5	37.5	39.9	40.5	40.8	37.9	27.2	8.8							
31500	9.1	28.4	9.7	28.8	28.1	28.9	28.8	23.8	10.3								
40000		8.9		8.2	8.7	10.2	7.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	66.8	89.3	59.8	78.8	78.1	81.8	81.8	80.1	78.9	69.8	62.8						
PNDB	78.9	98.8	73.8	92.8	92.8	95.8	95.8	94.1	89.9	83.4	74.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.76)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	88.6	86.5	80.9	73.9	74.5	78.3	79.4	75.9	79.7	84.7	88.3							114.7
125	74.8	91.5	84.2	78.1	78.8	77.8	78.4	80.7	82.9	84.9	87.8							117.8
160	74.8	90.3	82.2	76.4	77.8	77.8	79.4	81.4	83.7	86.7	87.8							117.4
200	74.0	88.2	82.2	78.4	79.3	80.5	80.9	83.9	84.9	87.7	89.3							117.5
250	77.3	92.5	84.9	80.4	80.8	82.0	83.2	84.2	85.7	87.4	88.3							119.6
315	79.0	94.0	84.9	80.4	81.3	82.3	82.9	83.9	85.2	87.2	87.8							120.4
400	77.3	91.7	83.7	78.4	80.0	80.8	82.2	83.4	84.4	86.2	85.8							118.8
500	75.3	90.3	82.4	78.7	79.8	80.5	82.2	82.9	83.9	85.2	84.8							117.8
630	76.9	91.8	84.2	80.2	82.1	83.1	84.4	85.2	85.7	86.2	84.8							119.2
800	77.8	93.0	85.2	81.7	81.8	83.1	84.9	86.2	86.7	85.4	84.3							120.1
1000	77.4	93.0	85.7	81.2	81.8	83.8	85.7	86.9	86.9	84.2	82.8							120.1
1250	78.4	95.0	86.4	82.5	84.6	85.8	87.7	88.2	88.4	84.7	82.8							122.0
1600	79.9	97.5	89.2	86.5	87.8	88.9	90.6	90.9	90.7	85.7	82.8							124.6
2000	85.9	102.8	94.4	94.0	95.9	97.4	99.1	98.8	96.4	93.2	89.1							131.3
2500	81.9	101.1	93.1	91.1	93.4	94.6	95.9	95.4	92.7	88.8	84.3							128.7
3150	81.4	100.6	93.1	92.1	94.9	95.6	95.8	95.8	94.2	89.5	86.3							129.1
4000	84.8	105.5	96.5	95.3	99.4	100.5	104.5	103.7	100.1	95.2	95.5							135.8
5000	83.7	103.7	97.2	95.5	97.1	97.7	99.4	98.8	95.8	90.9	88.8							131.9
6300	90.8	109.5	84.1	101.6	98.7	100.8	103.7	101.2	97.8	93.1	89.7							136.5
8000	85.8	106.9	79.9	95.8	97.8	99.8	99.2	100.4	96.1	91.8	87.8							133.8
10000	81.8	101.2	79.9	94.3	98.8	98.9	100.2	100.8	96.5	91.8	88.9							132.1
12500	80.8	100.3	79.4	93.1	95.5	98.8	100.5	99.4	95.4	91.1	85.7							131.5
16000	77.0	96.2	78.5	89.2	91.9	94.2	96.3	97.2	92.9	87.4	83.1							128.2
20000	74.9	94.5	89.7	87.8	90.9	93.0	95.7	97.8	92.8	87.4	82.1							127.9
25000	73.4	92.3	88.5	86.3	89.2	91.3	94.3	95.9	92.2	86.3	80.7							127.8
31500	71.9	90.5	87.7	84.8	87.7	90.2	92.8	93.8	90.5	84.8	78.9							126.1
40000	70.4	88.8	86.9	81.7	84.2	87.8	88.9	90.2	88.9	81.9	72.7							124.2
50000	69.8	85.2	89.2	78.8	80.4	83.3	86.1	85.8	83.8	79.8	69.8							122.8
63000	70.5	83.7	78.2	73.2	75.1	77.8	80.2	80.7	78.7	74.8	67.8							121.8
80000	74.3	86.2	72.1	72.8	72.3	74.5	75.4	77.4	73.2	73.4	70.8							124.9
OVERALL MEASURED																		
OVERALL CALCULATED	95.9	114.8	88.8	108.8	107.3	108.7	110.9	110.8	107.1	103.4	101.8							143.4
PNDB	109.8	128.8	101.7	119.1	119.9	121.8	123.8	123.3	120.8	116.7	115.7							

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 29
LOC SCHENECTADY
DATE 1/9/75
RUN 45/7
TAPE
BAR 28.7 MG (98228. N/M2)
TAMB 49. DEG F (283. DEG K)
THET 46. DEG F (281. DEG K)
HACT 7.26 GM/M3 (.00726 KG/M3)
NFA 7685. RPM (823. RAD/SEC)
NFK 7942. RPM (832. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 887. FT/SEC

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.3

MODEL SOUND PRESSURE LEVELS (99. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.7	64.3	39.2	54.3	52.9	53.2	52.7	52.1	54.3	57.0	50.9						
125	51.6	69.2	42.3	50.5	57.1	55.7	55.7	56.8	57.5	57.1	50.2						
160	51.6	67.8	40.3	54.7	55.2	54.6	56.6	57.4	58.1	56.7	56.0						
200	50.7	65.8	40.2	54.6	57.4	58.2	58.0	59.8	59.2	59.6	57.2						
250	53.9	69.9	42.8	56.5	58.8	59.7	60.1	60.0	59.8	59.1	56.8						
315	55.5	71.3	42.7	56.4	59.2	59.8	59.8	59.6	59.2	58.7	55.8						
400	53.7	69.0	41.4	56.3	57.9	58.3	58.9	59.0	58.3	57.0	53.0						
500	51.6	67.4	40.1	56.5	57.6	57.9	58.6	58.4	57.7	56.4	51.7						
630	53.0	68.8	41.7	57.9	59.7	60.3	61.0	60.5	59.3	57.2	51.1						
800	53.6	69.9	42.6	59.3	59.4	60.2	61.3	61.4	60.1	58.2	50.8						
1000	53.2	69.8	43.0	58.7	59.2	60.0	61.9	62.0	60.2	56.7	48.4						
1250	54.1	71.7	43.6	59.9	61.9	62.7	63.8	63.0	61.5	56.9	48.3						
1600	55.4	74.0	46.2	63.7	64.8	65.6	66.6	65.6	63.5	55.6	47.5						
2000	61.2	79.1	53.2	71.1	72.6	73.9	74.8	73.1	68.9	62.7	53.5						
2500	57.0	77.1	49.8	67.9	70.2	70.9	71.4	69.6	64.9	57.2	48.2						
3150	56.1	76.6	49.5	68.7	71.4	71.6	71.0	69.7	66.0	58.1	49.3						
4000	59.1	80.8	52.5	71.5	75.4	76.1	79.2	77.0	71.2	62.9	53.3						
5000	57.7	78.8	52.9	71.4	72.9	73.1	73.9	71.9	65.8	58.2	47.7						
6300	63.9	83.8	59.1	76.8	73.8	74.6	77.3	73.3	66.7	58.9	48.7						
8000	57.5	79.0	53.8	69.7	71.9	73.3	71.6	71.1	64.1	55.4	43.3						
10000	51.7	72.7	48.2	67.0	71.1	70.6	70.9	69.3	62.1	52.1	38.2						
12500	48.2	69.4	45.5	63.6	65.8	68.3	68.7	65.3	57.6	47.3	30.3						
16000	40.2	61.4	36.9	56.1	58.6	59.9	60.3	58.4	49.5	38.3	18.9						
20000	32.4	54.6	31.2	49.9	52.8	53.8	54.3	52.5	41.8	26.8	1.7						
25000	22.9	45.8	23.1	41.7	44.3	44.9	45.2	42.1	30.6	11.9							
31500	9.4	32.8	12.1	30.8	32.7	33.3	31.8	27.1	13.7								
40000		14.8		12.4	14.3	14.5	11.4	4.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.8	89.3	63.3	81.1	82.2	82.9	84.3	82.2	77.3	71.8	60.4						
PNDB	83.5	103.0	77.2	94.9	96.0	96.7	98.4	96.7	91.9	88.8	78.4						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG p&w 29
LOC SCHENECTADY
DATE 1/9/75
RUN 45/7
TAPE
BAR 29.7 HG (100220. N/M2)
TAMB 49. DEG F (283. DEG K)
TRET 46. DEG F (281. DEG K)
MACT 7.26 GM/S3 (.00726 KG/S3)
NFA 7865. RPM (823. RAD/SEC)
NFA 7942. RPM (832. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 887. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 11 YR. 14.3

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI)	100	69.3	80.6	68.9	73.9	74.8	75.5	76.2	76.7	79.9	84.7	88.3							114.8
VEHICLE R-55	125	75.0	91.8	84.2	78.1	79.3	78.5	78.7	80.9	82.4	85.2	88.1							118.2
CONFIG JOB 29	160	74.8	90.5	82.2	77.1	77.3	77.8	80.2	81.4	84.4	86.7	88.1							117.7
LOC SCHENECTADY	200	74.3	88.7	81.7	76.6	76.5	80.8	81.4	83.7	84.7	86.2	89.8							117.8
DATE 1/9/75	250	77.3	92.5	84.9	83.6	80.9	81.8	83.4	84.4	85.4	87.7	88.8							119.7
RUN 45/8	315	78.8	94.2	84.7	83.9	81.5	82.8	82.9	84.2	85.2	87.2	87.8							120.5
TAPE	400	77.8	92.8	83.4	78.8	79.8	80.5	82.4	82.9	84.9	85.9	85.8							118.8
BAR 29.7 HG	500	75.1	90.8	82.4	78.2	79.8	83.3	82.2	82.9	83.7	85.2	84.8							117.4
(100228. N/M2)	630	76.9	92.9	84.2	80.7	82.1	83.8	84.7	85.2	85.9	86.8	84.8							119.4
TAMB 49. DEG F	800	77.4	93.8	85.2	81.7	82.8	83.1	84.9	86.4	86.7	85.7	84.1							120.1
(283. DEG K)	1000	77.4	93.2	85.7	81.2	82.1	83.8	85.4	86.4	86.9	83.9	82.8							120.2
THET 40. DEG F	1250	78.1	94.8	86.2	82.2	84.4	86.6	87.4	88.4	87.9	84.7	82.8							121.8
(281. DEG K)	1600	80.4	97.5	88.9	86.5	88.1	89.4	90.4	90.9	89.9	85.7	82.3							124.6
MACT 7.26 GM/M3	2000	85.9	103.1	75.7	93.8	95.8	97.8	98.4	98.8	98.2	93.8	89.1							131.4
(.00726 KG/M3)	2500	81.8	100.8	72.9	91.8	93.2	94.6	95.9	95.8	92.9	88.9	84.8							128.7
NFA 7882. RPM	3150	81.8	101.1	73.1	92.8	94.9	95.8	96.1	96.3	93.7	89.5	86.3							129.3
(823. RAD/SEC)	4000	84.8	105.0	76.8	95.3	98.8	100.8	104.7	104.8	99.1	94.7	95.9							135.8
NFC 7939. RPM	5000	84.2	103.2	76.7	95.3	96.8	97.7	99.9	99.2	94.8	91.4	88.8							131.8
(831. RAD/SEC)	6300	91.3	109.2	83.1	101.8	98.9	100.8	103.7	101.2	97.8	93.1	89.7							130.4
NFB 8823. RPM	8000	85.8	105.8	78.9	98.3	98.1	100.8	99.2	100.8	96.1	92.8	87.3							133.8
(924. RAD/SEC)	10000	81.1	100.9	78.1	94.8	94.8	98.9	100.4	100.9	96.2	92.3	88.7							132.2
NO. OF BLADES 15	12500	80.8	100.8	75.4	93.4	96.8	98.8	100.5	99.9	95.4	91.9	85.7							131.8
FAN TIP SPEED	16000	78.7	95.7	78.3	89.2	92.9	94.2	95.5	97.5	92.7	88.4	83.1							126.1
686. FT/SEC	20000	74.9	94.3	89.4	87.8	90.9	93.5	95.5	97.3	92.6	87.2	82.1							127.8
	25000	73.4	92.5	88.3	86.1	89.8	91.6	93.8	95.9	92.2	86.3	80.2							126.9
	31500	72.1	91.3	87.7	85.3	87.7	90.2	92.0	93.8	90.3	85.3	78.8							126.2
	40000	70.4	87.8	87.2	82.8	84.7	87.8	89.4	90.8	86.9	81.9	72.8							124.3
	50000	69.6	85.7	86.9	78.3	80.9	83.3	86.1	86.5	83.8	79.7	69.9							122.9
	63000	70.7	84.4	78.2	78.7	75.3	78.3	79.9	83.2	78.7	75.8	66.8							121.6
	80000	74.3	86.2	72.1	72.4	72.3	74.3	78.4	82.2	73.8	73.4	78.7							126.5
OVERALL MEASURED																			
OVERALL CALCULATED		90.8	114.5	88.8	108.1	107.4	108.9	111.8	110.8	108.9	103.8	101.8							143.4
PNDB		108.8	127.8	101.8	119.2	120.8	121.2	124.8	123.8	119.9	118.8	118.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PR. 14.3

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0.	0.	0.	0.	0.	0.
50																		
63																		
SIDELINE 200. FT. 80																		
(60.96 M) 100	46.2	64.5	39.2	52.3	53.1	53.5	53.8	52.9	54.0	57.0	59.9							
VEHICLE R-55 125	61.9	69.4	42.3	56.5	57.6	56.4	55.9	57.1	57.0	57.4	56.5							
CONFIG 29 160	51.6	66.1	41.3	55.4	55.5	55.6	57.3	57.4	56.8	56.7	56.2							
LOC SCHENECTADY 200	51.0	66.3	39.7	54.8	56.8	56.5	58.5	59.6	59.0	60.1	57.5							
DATE 1/9/75 250	53.9	69.9	42.6	56.7	56.6	59.4	60.4	60.2	59.6	59.6	56.2							
RUN 45/6 315	55.3	71.6	42.5	58.9	59.5	59.6	59.8	59.9	59.2	58.7	55.0							
TAPE 400	53.9	69.2	41.2	56.8	57.7	56.5	59.2	58.5	56.8	57.3	53.0							
BAR 29.7 HG 500	51.4	67.1	40.1	56.8	57.3	57.7	58.6	58.4	57.4	56.4	51.4							
(00228. N/M2) 630	53.0	69.0	41.7	58.4	59.7	60.6	61.2	60.5	59.5	58.9	51.1							
TAMB 49. DEG F 800	53.4	69.9	42.6	59.3	60.2	60.2	61.3	61.6	60.1	58.4	50.3							
(283. DEG K) 1000	53.2	70.0	43.0	58.7	59.5	60.8	61.7	61.5	60.2	56.4	48.7							
TWET 46. DEG F 1250	53.9	71.4	43.3	59.6	61.0	63.5	63.5	63.3	61.0	54.9	46.3							
(281. DEG K) 1600	55.9	74.0	45.9	63.7	65.3	66.1	66.3	65.0	62.7	55.0	47.3							
HACT 7.26 GM/M3 2000	61.2	79.3	52.5	70.0	72.6	74.1	73.1	73.1	68.7	63.0	53.9							
(.00726 KG/M3) 2500	56.7	76.9	49.5	68.7	69.9	70.9	71.4	69.8	65.2	57.2	48.4							
NFA 7662. RPM 3150	56.4	76.8	49.5	69.2	71.4	71.9	71.3	70.2	65.5	58.1	49.3							
(823. RAD/SEC) 4000	59.1	80.3	52.7	71.5	75.7	76.4	79.5	77.3	70.2	62.4	57.3							
NFR 7039. RPM 5000	58.2	78.3	52.4	71.2	72.7	73.1	74.4	72.1	65.8	58.7	47.7							
(831. RAD/SEC) 6300	64.4	83.5	50.1	70.0	74.1	74.6	77.3	73.3	66.9	58.9	48.7							
NFB 8823. RPM 8000	57.5	78.8	52.8	70.5	72.1	74.1	71.8	71.8	64.1	55.7	43.8							
(924. RAD/SEC) 10000	51.2	72.4	47.5	67.2	71.1	70.8	71.1	69.6	61.9	52.9	37.9							
NO. OF BLADES 15 12500	48.2	69.9	45.5	63.8	66.3	68.3	68.7	65.8	57.6	48.1	30.3							
FAN TIP SPEED 16000	39.9	60.9	36.7	56.1	59.6	59.9	59.6	56.6	49.3	37.3	19.9							
886. FT/SEC 20000	32.4	54.3	30.9	49.9	52.8	54.3	54.1	52.3	41.8	26.8	1.7							
25000	22.8	45.2	22.9	41.4	44.8	45.2	44.7	42.1	30.8	11.9								
31500	9.7	33.2	12.1	30.7	32.7	33.3	31.5	28.9	13.4									
40000		13.7		12.8	14.8	14.5	11.9	4.8										
50000																		
63000																		
80000																		
OVERALL CALCULATED	70.0	89.1	62.2	81.2	82.3	83.1	84.5	82.4	79.9	71.8	60.8							
PNDB	83.8	102.8	76.5	95.8	96.1	96.9	96.8	96.9	91.3	84.0	78.4							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. 10.	0. 20.	0. 30.	0. 40.	0. 50.	PNL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.0	66.6	61.9	70.2	76.0	77.0	75.2	70.4	71.9	70.4	77.3							112.8
VEHICLE R=55	125	66.5	63.8	56.2	67.9	73.0	66.3	66.4	71.2	73.4	75.7	70.1							109.6
CONFIG 1=29	160	65.0	60.3	52.2	66.4	67.5	67.5	69.2	70.7	73.2	76.7	76.3							107.3
LOC SCHENECTADY	200	65.3	79.5	52.7	67.2	69.8	71.5	72.6	74.4	75.4	77.4	77.8							106.1
DATE 1/9/75	250	67.8	62.3	55.7	70.4	71.3	71.8	72.9	73.2	74.4	75.7	70.3							109.1
RUN 45/9	315	69.0	64.0	55.7	71.4	72.5	73.0	73.7	74.2	75.2	70.7	70.1							110.5
TAPE	400	66.1	62.5	54.4	70.2	71.5	72.3	73.2	74.4	75.7	75.4	74.3							109.4
BAR 29.7 HG	500	69.8	60.6	53.4	69.7	71.3	72.0	73.2	73.7	74.4	76.2	73.1							108.2
(98228. N/M2)	630	67.9	63.6	55.7	73.0	74.3	75.8	76.4	76.9	77.9	80.0	74.0							111.3
TAMB 49. DEG F	800	68.4	64.3	57.2	73.5	74.1	75.3	76.7	78.2	78.4	79.9	73.8							111.6
(283. DEG K)	1000	68.9	65.3	58.2	73.7	74.3	77.1	78.2	79.7	80.9	81.4	73.8							113.1
TWET 46. DEG F	1250	75.4	92.1	63.9	81.5	85.4	87.3	89.2	89.2	89.9	84.7	80.3							121.3
(281. DEG K)	1600	74.1	91.3	63.4	81.1	83.6	85.4	86.9	87.2	87.4	83.2	78.8							119.8
HACT 7.2% GM/M3	2000	72.9	90.1	62.4	80.3	81.9	83.9	85.4	85.4	85.4	81.2	75.8							118.3
(.00726 KG/M3)	2500	77.1	94.8	65.1	83.9	87.4	88.9	90.4	90.8	93.4	88.5	81.8							123.5
NFA 5505. RPM	3150	75.8	93.9	64.9	83.6	87.2	88.6	89.6	89.8	91.7	85.8	80.5							122.7
(578. RAD/SEC)	4000	76.3	100.1	73.3	92.8	94.6	95.5	96.2	92.2	93.3	88.9	82.8							128.5
NFK 5550. RPM	5000	73.5	92.5	66.2	85.1	87.6	89.8	90.7	91.2	91.8	85.1	79.1							122.8
(582. RAD/SEC)	6300	74.5	91.3	64.7	83.9	86.2	92.8	98.7	93.2	91.3	84.8	79.7							123.5
NFB 8823. RPM	8000	70.4	88.7	62.2	82.4	85.6	86.3	86.2	89.4	89.1	83.8	78.8							120.7
(924. RAD/SEC)	10000	69.8	87.2	61.2	84.1	83.9	86.6	86.7	88.9	89.2	82.8	78.9							120.1
NO. OF BLADES 15	12500	68.8	85.1	59.5	79.7	82.5	85.5	87.0	88.4	86.9	81.8	75.4							118.9
FAN TIP SPEED	16000	66.8	81.5	56.3	75.3	78.9	81.2	83.5	84.7	84.7	78.4	72.9							115.7
481. FT/SEC	20000	65.2	79.1	55.2	73.6	76.7	80.0	82.0	84.3	83.1	78.2	71.4							114.8
	25000	65.2	77.1	55.5	71.1	74.5	78.6	79.1	81.6	80.9	75.6	68.9							112.9
	31500	65.6	76.1	55.5	70.1	73.5	75.7	77.5	79.8	79.3	73.8	67.5							112.4
	40000	65.9	74.3	56.9	67.8	71.8	73.8	75.4	76.2	76.2	71.8	64.2							111.8
	50000	66.8	75.2	60.2	64.6	69.7	71.6	72.6	73.8	73.2	70.2	63.5							112.7
	63000	70.5	75.2	61.5	62.8	69.6	71.6	70.4	70.2	69.8	71.8	67.8							114.9
	80000	73.8	81.5	62.3	64.4	70.5	72.3	71.9	70.7	70.7	72.2	70.2							121.2
OVERALL MEASURED																			
OVERALL CALCULATED		86.2	104.3	77.8	96.1	98.5	100.3	101.1	101.0	101.4	98.0	91.5							134.1
PNAM		98.9	119.3	92.2	111.1	113.2	114.8	115.3	113.8	114.5	109.3	104.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.70)	0. (0.	0. (110.	0. (110.	0. (110.	0. (110.	0. (3
50																	
63																	
80																	
100	44.0	64.3	48.2	50.0	56.4	59.8	52.5	48.6	48.0	48.8	45.9						
125	45.4	61.5	34.3	48.3	51.3	48.2	45.7	47.3	48.0	47.6	44.5						
160	41.8	57.9	30.3	44.7	45.7	45.3	46.3	46.7	47.6	46.7	44.5						
200	42.0	57.1	30.7	45.4	47.9	49.2	49.5	50.3	49.7	49.3	45.7						
250	44.4	59.7	33.8	48.5	48.3	49.4	49.9	49.8	48.8	47.4	44.8						
315	45.5	61.4	33.5	49.5	50.5	50.6	50.5	49.9	49.2	48.2	43.5						
400	44.4	59.8	32.2	48.1	49.4	49.8	49.9	50.0	49.8	48.8	41.9						
500	41.9	57.7	31.1	47.8	49.1	49.4	49.6	49.2	48.2	47.4	39.9						
630	44.8	60.8	33.2	50.7	52.8	52.8	53.0	52.3	51.5	50.9	41.1						
800	44.4	61.2	34.6	51.1	51.8	52.5	53.1	53.4	51.9	50.7	40.9						
1000	44.7	62.1	35.5	51.2	51.7	54.1	54.4	54.7	54.2	51.9	39.4						
1250	51.1	68.7	41.1	58.9	62.6	64.2	65.3	64.0	63.0	58.9	45.8						
1600	49.7	67.8	40.4	58.3	63.8	62.1	62.8	61.8	60.2	53.1	41.8						
2000	48.2	66.4	39.2	57.4	58.8	63.4	61.1	59.8	57.9	50.7	40.8						
2500	52.2	70.7	41.8	60.7	64.2	65.2	65.9	64.8	63.7	58.7	45.4						
3150	50.4	69.6	41.2	60.2	63.7	64.8	64.8	63.7	63.8	53.8	43.8						
4000	58.8	78.4	49.2	69.8	78.7	71.1	71.8	65.8	64.5	54.7	43.8						
5000	47.5	67.8	41.9	61.8	63.4	64.3	65.1	64.1	61.8	52.4	40.2						
6300	47.7	65.8	39.8	59.1	63.3	64.8	64.3	65.3	60.9	50.7	38.7						
8000	42.2	61.8	36.8	56.5	58.8	61.8	60.8	60.1	57.1	48.7	38.8						
10000	39.7	58.7	33.5	54.8	56.4	58.5	58.4	57.6	54.9	43.4	28.2						
12500	36.2	54.2	29.5	50.1	52.8	55.1	55.2	54.3	49.1	37.8	28.1						
16000	29.2	48.7	22.7	42.1	45.8	48.9	47.6	45.9	41.3	27.3	8.7						
20000	22.7	39.1	16.7	35.7	38.8	48.8	48.8	39.3	32.3	17.8							
25000	14.6	29.8	18.1	28.8	29.5	38.2	29.8	27.8	19.8	1.4							
31500	3.2	18.8		18.5	18.8	18.8	17.8	13.1	2.4								
40000		8.3			1.1	8.5											
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.4	79.9	53.2	73.1	74.4	75.8	75.5	73.6	72.3	64.8	50.8						
PNdB	73.8	94.8	87.9	87.4	89.4	98.3	98.2	87.1	85.9	77.8	67.4						

PAGE 1 FULL SCALE DATA RECEIVING PROGRAM

PRICE DATE - MONTH 3 DAY 10 HR. 10.2

MODEL SONIC BOOM LEVELS 150. LBS. FT. 70 PERCENT STD. ATM. DAY
ANGLES FROM INLET IN DEGREES (RAD MACHANS)

	FREQ.	0°.	0°.	0°.	0°.	0°.	110°.	110°.	120°.	130°.	140°.	150°.	0°.	0°.	0°.	0°.	0°.	0°.	PWL
		50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	190.	200.	210.	
		62																	
RADIAL 17. FT.		60																	
	1 SEC BI	100	63.3	71.3	74.7	75.1	73.6	73.3	69.7	66.7	71.2	75.2	77.1						100.0
VEHICLE	SONIC	125	68.5	76.8	80.9	78.1	71.8	69.1	68.4	70.7	73.2	74.2	76.3						105.2
CONFIG	30	160	64.2	72.5	76.2	77.1	72.5	67.0	65.7	70.6	73.4	75.7	78.8						104.9
LOC	SIDE-SECTION	200	64.3	65.3	64.2	67.9	68.5	71.3	71.9	73.7	74.9	77.2	78.1						100.8
DATE	1/14/75	250	66.5	67.7	69.7	73.9	72.8	72.5	73.2	73.8	74.1	75.7	78.1						100.4
RUN	4071	315	65.8	69.2	70.4	73.4	72.3	73.3	73.2	73.7	74.5	76.4	76.6						107.8
TAPE		400	65.1	67.5	69.2	74.4	71.9	72.5	73.4	73.5	75.7	75.7	74.3						106.8
BAR	26.7 PS	500	64.8	66.2	67.9	77.2	71.1	72.3	74.2	73.7	74.2	74.9	74.1						107.8
	(381°2. LB/FT2)	630	65.4	69.8	70.4	79.7	73.6	76.1	76.2	76.9	77.5	77.7	74.8						109.7
TAPE	SYS. SEC F	800	67.1	70.3	72.2	78.4	74.1	76.3	77.7	78.4	78.9	77.9	74.8						109.8
	(277. LBS/FT)	1000	67.4	72.7	73.9	79.9	74.1	77.3	78.7	79.7	81.2	79.3	74.6						111.2
TEST	37. SEC F	1250	74.6	77.3	79.2	82.5	84.1	80.8	68.9	69.2	69.7	69.7	68.8						119.8
	(270. SEC A)	1600	71.9	75.6	77.9	81.3	82.4	85.1	85.9	85.9	86.7	82.5	77.1						117.1
MACT	5.27 SEC/3	2000	71.4	75.6	77.2	80.5	81.9	84.5	85.6	85.6	85.7	81.5	76.3						116.6
	(1.38527 LB/FT)	2500	74.4	78.1	80.7	85.4	87.4	90.4	91.6	91.4	95.2	86.8	83.8						123.1
NFA	5423. NFA	3150	72.6	77.8	80.1	84.3	86.2	88.9	89.3	89.1	91.2	85.0	80.6						120.7
	(5486. FT/SEC)	4000	74.8	80.2	81.0	87.8	91.4	91.1	91.3	92.3	91.0	88.5	83.2						123.3
NFX	5501. NFX	5040	72.9	78.5	81.0	85.5	88.3	89.3	90.7	91.5	92.3	86.4	79.9						121.9
	(5496. FT/SEC)	6300	73.3	77.1	80.0	84.7	87.5	90.3	92.0	92.5	91.3	84.8	80.3						122.4
NFD	6623. NFD	8000	69.9	74.0	77.7	82.9	84.4	87.7	88.5	89.0	89.2	83.3	78.4						119.7
	(5486. FT/SEC)	10080	69.2	73.3	76.5	80.2	84.0	86.6	88.6	88.7	88.8	83.1	78.3						119.3
NO. OF BLADES	15	12500	67.7	72.5	74.6	78.2	82.6	85.7	87.4	88.3	87.5	81.8	76.9						118.5
FAN TIP SPEED		16000	64.7	69.2	71.7	76.4	79.1	82.8	84.8	85.9	85.6	79.1	74.8						116.1
	473. FT/SEC	20000	63.6	67.5	70.4	75.5	77.9	81.5	82.9	83.8	84.8	78.4	73.3						115.8
		25000	63.1	66.3	69.0	73.6	76.5	79.6	80.6	82.2	82.9	76.7	71.8						114.1
		31500	62.3	65.7	68.4	72.7	75.6	78.1	78.7	81.3	81.9	75.5	68.9						114.1
		40000	62.6	63.7	66.3	70.1	72.1	75.0	77.0	78.1	78.3	73.0	65.4						112.3
		50000	64.7	64.3	66.0	67.7	69.6	72.3	73.8	73.7	73.9	70.2	65.8						110.8
		63000	66.0	65.1	67.4	68.9	67.5	69.5	70.3	69.2	69.2	67.7	66.2						110.9
		80000	71.4	67.7	70.2	67.7	67.9	69.6	70.1	69.3	68.9	68.6	68.6						115.9
	OVERALL MEASURED																		
	OVERALL CALCULATED		64.3	68.5	70.5	75.2	77.1	79.2	166.4	166.9	101.7	98.1	92.3						122.0
		PWL=	97.3	102.7	103.7	109.1	111.2	112.2	112.9	113.5	114.9	109.8	105.8						

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 18 NO. 18.2

MODEL SOUND PRESSURE LEVELS (50. DB, P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (RAD RADIANS)

FREQ.	50. (1.02)	60. (1.05)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.2	49.3	52.9	53.6	52.1	51.2	47.8	42.9	45.8	47.5	45.7						
125	45.4	44.4	48.1	50.5	50.1	46.9	45.7	46.8	47.7	48.4	44.7						
160	45.8	43.1	46.3	51.4	44.7	45.8	46.8	46.9	47.8	47.7	45.8						
200	41.8	43.0	44.2	47.1	48.9	49.8	49.0	49.6	49.2	49.1	46.8						
250	43.1	45.2	47.6	52.3	48.8	50.2	50.1	48.7	48.3	47.6	43.7						
315	43.3	46.6	48.2	51.4	50.8	48.8	50.0	49.4	49.8	46.8	44.8						
400	42.4	44.7	48.8	50.5	48.9	50.4	50.2	49.5	49.4	47.8	41.5						
500	41.1	43.5	45.4	50.8	48.8	49.7	50.8	49.2	47.9	48.1	40.9						
630	42.5	46.2	48.8	52.4	51.2	53.3	52.7	52.3	51.5	48.7	41.4						
800	43.1	47.2	49.6	52.1	51.6	53.5	53.6	53.4	52.3	48.7	41.8						
1000	43.2	47.5	50.2	52.4	51.7	54.3	54.0	54.7	54.4	49.7	40.4						
1250	50.4	53.9	56.3	59.9	61.4	63.7	65.0	64.8	62.7	56.9	46.3						
1600	47.4	52.3	54.7	57.2	59.5	61.8	61.8	60.6	59.5	52.4	42.8						
2000	46.7	51.3	54.0	57.8	58.9	61.1	61.4	60.1	58.2	51.9	40.7						
2500	49.5	54.1	57.3	62.4	64.2	66.7	67.1	65.8	63.4	57.9	47.7						
3150	47.4	53.6	56.4	60.0	62.7	64.9	64.5	62.9	61.5	53.8	43.6						
4000	49.1	53.4	57.5	64.3	67.5	68.7	68.0	65.4	63.8	56.2	45.8						
5000	46.5	53.6	56.7	61.5	62.7	64.8	65.2	64.4	63.1	51.7	41.8						
6300	46.5	51.4	54.9	59.8	62.8	64.9	65.6	64.6	61.8	50.5	39.2						
8000	41.8	47.3	51.4	57.1	59.5	61.1	60.9	59.7	57.2	47.3	34.1						
10000	39.3	44.3	48.4	54.9	56.5	58.8	58.7	57.5	54.5	43.9	29.5						
12500	35.1	41.6	44.7	52.7	53.9	55.2	55.6	54.2	49.8	37.2	28.7						
16000	27.8	34.4	38.1	43.9	45.7	46.8	46.8	47.8	42.2	28.8	0.8						
20000	21.1	27.5	31.9	37.8	39.4	42.2	41.5	40.8	34.8	17.7							
25000	12.8	19.2	23.8	28.9	31.5	33.2	31.4	28.8	21.6	2.4							
31500	3.4	7.7	12.8	18.1	23.8	22.2	18.2	14.5	5.1								
40000				8.7	2.2	3.1											
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.8	63.9	66.4	71.3	72.9	74.4	74.8	73.5	72.6	64.5	56.8						
PNOW	71.7	78.2	79.8	85.4	87.4	84.8	87.8	87.8	86.7	78.3	68.7						

SIREN AT 200. FT.
(60.96 M)
VEHICLE A-55
CONFIG 30
LOC SCHENECTADY
DATE 3/14/75
R... 49/1
TYPE
BAR 29.7 HG
(991.2. MB)
TEMP 30. DEG F
(272. DEG K)
T.D. 37. DEG F
(276. DEG K)
HUMIDITY 54.27 PERCENT
(1.38E-2 KG/M3)
WIND 5423. RPM
(570. FT/SEC)
RPM 5931. RPM
(579. FT/SEC)
WPT 6523. RPM
(636. FT/SEC)
NO. OF BLADES 15
FAN TIP SPEED
633. FT/SEC

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA

PROP. DATE - MONTH 3 DAY 10 HR. 10.2

FULL SCALE PRESSURE LEVELS (PSF, MIC. F. TC PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	0° (0.)	6° (.1)	7° (.13)	9° (.15)	10° (.17)	11° (.19)	12° (.21)	13° (.23)	14° (.24)	15° (.26)	0° (0.)	0° (0.)	0° (0.)	0° (0.)	0° (0.)	0° (0.)	PWL
50																	
63																	
80																	
100	71.8	72.8	72.4	74.6	75.3	77.3	79.4	73.7	74.4	78.2	81.6						109.5
125	69.5	70.3	72.4	71.1	73.5	72.3	72.2	74.9	76.2	77.4	80.6						107.9
160	65.6	68.5	69.2	70.1	69.3	71.5	73.2	74.9	77.7	78.9	81.3						108.2
200	67.2	66.2	69.2	70.9	72.3	74.8	75.4	77.4	78.9	80.7	82.1						109.6
250	69.3	71.5	72.7	73.9	73.5	75.9	76.4	76.4	77.9	79.4	80.3						109.5
315	70.3	72.2	73.9	75.9	75.8	76.8	76.9	77.4	78.4	80.2	80.1						110.5
400	69.3	71.8	71.9	73.1	73.3	75.5	76.2	76.9	77.9	78.7	78.3						109.1
500	67.8	69.3	70.7	72.7	73.6	75.4	76.4	76.9	77.7	78.2	77.8						108.8
630	69.4	71.5	71.7	73.9	75.5	78.8	78.2	79.9	80.9	80.9	78.1						111.0
800	70.4	72.5	74.7	76.4	76.3	79.5	79.9	80.9	81.2	82.2	78.1						112.0
1000	69.9	73.3	75.2	77.2	77.1	79.6	81.2	81.9	82.9	82.9	77.1						112.9
1250	72.6	76.3	77.4	79.5	81.9	83.9	85.7	85.9	85.6	82.7	78.6						116.0
1600	82.6	86.8	87.2	89.4	93.9	92.4	94.4	95.7	91.9	91.5	82.8						125.4
2000	75.1	79.3	81.9	84.8	85.7	87.1	89.4	86.1	88.2	83.5	79.3						119.8
2500	71.5	76.3	82.2	85.9	87.4	85.6	90.6	96.6	90.7	84.8	80.8						121.5
3150	77.4	82.3	84.3	89.1	91.7	92.9	95.3	95.3	94.9	89.8	85.8						125.8
4000	76.1	81.3	85.3	90.3	93.9	94.6	94.8	93.8	92.6	88.7	82.5						125.7
5000	77.3	82.5	88.8	96.8	103.9	101.0	100.0	97.7	94.8	89.9	83.4						131.3
6300	75.1	81.1	85.5	89.7	93.5	92.5	94.5	94.5	93.1	87.4	83.8						125.8
8000	75.4	80.7	85.9	90.3	93.2	92.7	94.3	94.5	92.5	86.8	81.6						125.8
10000	73.9	79.3	83.8	88.2	89.2	91.3	94.3	93.5	93.3	86.9	81.3						124.5
12500	75.9	74.2	81.1	85.2	88.9	90.4	92.1	93.8	91.8	84.5	80.0						123.2
16000	68.4	73.6	77.5	81.6	84.8	87.6	89.2	90.4	88.3	82.8	77.5						120.6
20000	67.1	72.5	76.1	80.8	83.7	85.7	88.2	89.8	89.0	82.4	77.1						120.3
25000	65.9	70.2	74.5	79.3	81.2	84.3	86.6	88.1	86.6	80.5	75.1						119.1
31500	64.8	69.2	73.4	77.2	80.8	83.6	84.7	86.5	85.7	79.8	73.2						118.8
40000	63.8	68.7	72.8	76.8	77.1	80.3	82.2	82.9	82.1	76.8	67.8						116.9
50000	65.2	65.6	69.1	71.4	72.5	76.8	78.5	78.2	77.9	73.4	65.7						114.9
63000	66.2	65.3	68.4	67.9	69.0	71.5	73.1	71.9	71.4	69.2	60.8						112.7
80000	70.4	68.2	70.2	67.7	67.9	69.6	70.1	69.3	69.1	68.6	68.6						110.6
OVERALL MEASURED																	
OVERALL CALCULATED	88.1	92.3	95.7	100.9	103.6	104.0	105.4	105.1	103.5	99.0	94.8						130.5
PWL	100.6	105.3	109.0	114.8	117.8	118.5	119.6	117.5	116.2	112.0	108.1						

RADIAL 17. FT.

VEHICLE PASS

SCRIPT 30

LOC SOMERSCTADY

DATE 1/14/75

RUN 4972

TAPE

BAR 29.7 IN

(0001620. N/M2)

TAMB 36. DEG F

(277. DEG K)

TEST 37. DEG F

(276. DEG K)

HACT 5.27 GM/M3

(.00527 KG/M3)

MFA (0190. MPH

(849. MM/SEC)

MFR (0322. MPH

(802. MM/SEC)

MFD (0436. MPH

(924. MM/SEC)

NO. OF BLADES 15

FAN TIP SPEED

561. FT/SEC

C-3

PAGE 3 FULL SCALE DATA [illegible]

[illegible] PREC. RATE = MONTH 3 DAY 10 HR. 10.2

[illegible] SO. OF INTERSECTS LEVELS (SEC. 2.) TO PERCENT DEL. NUM. CAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		54o	6oo	7oo	8oo	9oo	10oo	11oo	12oo	13o.	14o.	15o.	0.	0.	0.	0.	0.	0.
	PARA	(1.02)	(1.1)	(1.22)	(1.33)	(1.71)	(1.88)	(2.06)	(2.24)	(2.42)	(2.6)	(2.78)	(0.	(0.	(0.	(0.	(0.	(0.
	%	69																
SIZE, PIPE DEC. FT.		69																
[illegible]	100	48.7	50.3	57.7	57.1	53.5	55.2	52.7	49.9	49.1	50.5	50.2						
VELOCITY [illegible]	120	47.4	47.9	53.6	49.5	51.3	50.4	49.4	51.8	50.7	49.8	49.8						
CONFIG [illegible]	140	43.6	46.1	47.3	49.4	48.8	49.3	50.3	50.9	52.1	52.9	49.8						
LPC SPECIFICATI	200	47.7	45.8	47.2	49.9	53.4	52.5	52.5	53.3	53.2	52.8	50.8						
DATE 1/16/75	250	45.6	48.3	51.5	51.7	51.5	49.7	51.4	52.2	52.1	51.1	48.8						
RUN 4972	315	46.7	50.3	51.7	53.9	53.7	54.3	53.9	53.1	52.5	51.7	47.5						
TAPE	400	45.7	48.2	49.7	51.1	51.2	51.8	52.9	52.5	51.5	50.8	45.5						
BAR 29.7 IN	500	44.1	46.4	47.1	47.5	51.3	52.4	53.1	53.4	51.4	49.4	44.7						
[illegible]	630	47.5	49.5	51.2	52.7	51.2	50.1	53.7	55.3	54.5	51.4	44.8						
TAPE 30. DEG F	800	48.4	49.4	52.1	54.1	53.8	52.7	54.3	54.1	54.6	50.8	44.3						
[illegible]	1000	45.7	49.8	52.5	53.7	54.5	53.4	52.4	53.8	54.2	51.4	42.9						
T-CT 37. DEG F	1250	46.4	50.9	53.1	54.9	55.2	48.5	51.9	54.8	56.6	52.9	44.8						
[illegible]	1600	53.2	53.2	54.2	57.8	58.8	59.1	58.3	58.3	58.7	51.4	47.5						
HACT 5.27 CM/MM	2000	51.5	55.6	54.7	61.1	62.6	61.0	59.1	63.6	58.7	53.8	43.7						
[illegible]	2500	47.7	55.4	57.8	57.7	58.2	59.8	58.1	58.8	62.8	53.9	44.4						
APA 0199. SQ.	3150	52.1	56.1	61.2	55.7	63.2	62.9	62.5	66.2	66.7	56.4	46.6						
[illegible] 640. MAP/SEC]	4000	56.3	58.6	61.2	66.5	73.8	70.2	69.5	67.1	63.8	56.5	46.3						
APA 0322. SQ.	5000	51.3	57.6	64.4	72.7	78.7	78.4	74.4	76.7	65.6	57.2	46.5						
[illegible] 640. MAP/SEC]	6300	49.2	55.4	61.4	64.9	69.6	67.1	64.1	66.6	62.8	53.2	42.8						
MFD 0163. SQ.	8000	47.1	53.8	58.8	65.1	64.2	66.1	66.7	65.2	60.4	50.5	37.4						
[illegible] 926. GAL/SEC]	10000	43.1	50.5	56.1	60.9	61.7	63.1	65.8	62.2	59.6	47.3	32.5						
NO. OF BLADES 15	12500	33.4	45.3	51.2	55.7	57.2	60.8	60.3	59.7	53.3	40.7	26.7						
FAN TIP SPEED	16000	31.6	38.3	43.6	48.5	51.5	53.3	53.3	51.5	44.9	31.5	11.4						
561. FT/SEC	20000	24.6	32.5	37.7	42.0	45.5	46.5	46.8	44.7	38.2	21.7							
	25000	15.2	23.8	29.1	34.6	38.3	37.9	37.4	34.3	25.3	6.1							
	31500	2.4	11.2	17.6	23.5	29.6	28.7	24.2	19.6	8.9								
	40000			8.1	9.5	7.2	7.0	4.8										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		92.8	97.9	71.3	70.6	79.3	79.7	79.3	77.4	73.8	67.2	59.6						
	PCNT	75.5	80.7	64.9	98.9	83.8	94.1	93.3	90.8	87.8	80.5	71.1						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE [illegible]

FORCE DATE = MONTH 3 DAY 30 HR. 10.2

FULL SCALE [illegible] LEVEL 150. DEG. F= 70 PERCENT REL. HUM. DAY)

SPEEDS FROM INLET IN KNOTS (AMF READING)

	FREQ	0.	0.	0.	0.	0.	0.	PWL
		110.	110.	110.	110.	110.	110.	
RADIAL 17. FT.	50							
	60							
	70							
[illegible]	80	85.1						110.9
[illegible]	90	84.3						112.9
[illegible]	100	85.3						112.1
[illegible]	110	84.3						113.1
DATE 1/10/75	120	84.8						113.4
[illegible]	130	84.8						113.9
TAPE	140	82.9						112.9
BAR 29.7 [illegible]	150	81.8						112.1
[illegible]	160	83.5						114.6
TAPE [illegible]	170	81.3						114.6
[illegible]	1770	84.7						115.2
T.C.T. [illegible]	1850	88.1						117.4
[illegible]	1930	93.5						120.7
NACI [illegible]	2010	97.5						123.0
[illegible]	2090	94.1						120.1
NFA [illegible]	2170	88.8						120.7
[illegible]	2250	93.7						118.0
NFC [illegible]	2330	91.7						120.5
[illegible]	2410	84.7						120.3
NFB [illegible]	2490	84.6						120.2
[illegible]	2570	83.1						120.5
FAN TIP SPEED	2650	80.9						124.5
660. FT/SEC	2730	80.4						124.5
	2810	79.5						123.7
	2890	79.4						123.4
	2970	78.6						121.5
	3050	77.8						119.6
	3130	74.6						118.6
	3210	73.4						122.6
OVERALL MEASURED								
OVERALL CALCULATED		90.7						130.5
	PWL	112.2						

FULL SCALE FLOWOFF LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

PMIC. LATE = MONTH 3 DAY 18 HR. 10.2

ANGLES FLOW INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.05)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
60																	
100	44.2	51.5	52.9	52.5	51.9	52.7	51.5	50.4	51.8	53.8	53.7						
125	47.6	50.4	50.1	50.7	54.3	55.6	53.4	54.0	54.5	53.9	52.7						
160	47.1	50.1	50.8	52.4	52.0	53.3	54.3	54.7	55.6	56.0	53.5						
200	45.7	47.0	50.0	53.0	54.1	56.2	56.0	56.5	55.7	54.3	54.2						
250	47.6	51.9	54.1	55.9	55.5	54.4	54.9	55.0	56.1	55.9	52.5						
315	50.3	53.3	55.0	56.6	56.5	57.3	57.0	56.6	56.5	55.2	52.0						
400	49.2	51.5	52.2	54.3	54.6	55.7	56.2	55.7	55.3	54.3	49.7						
500	47.4	49.4	51.3	54.3	54.6	57.1	56.6	54.9	54.7	54.1	48.4						
630	47.3	51.2	54.3	57.6	57.2	59.3	58.4	56.2	57.3	54.4	48.4						
800	49.6	52.2	54.9	57.5	57.1	58.2	59.1	58.6	56.9	53.4	47.5						
1000	49.7	52.9	55.5	58.4	58.5	59.1	60.2	59.4	57.9	52.9	45.9						
1250	51.6	53.9	56.8	59.6	60.6	61.7	62.0	61.2	59.7	52.9	46.0						
1600	56.2	61.0	64.7	66.2	70.3	73.3	71.6	69.5	66.0	57.4	50.0						
2000	56.2	60.1	63.5	66.8	69.6	70.8	71.6	68.5	64.9	57.3	48.5						
2500	52.7	58.6	62.3	66.2	67.2	68.4	69.1	67.6	63.9	56.4	45.9						
3150	56.7	60.6	64.5	66.9	71.4	71.1	72.0	73.9	71.0	59.1	49.0						
4000	55.4	60.4	64.8	66.2	71.2	71.7	72.5	72.6	68.3	57.3	47.8						
5000	57.3	61.6	66.7	68.5	77.5	75.6	75.4	77.7	69.9	61.0	52.8						
6300	52.3	58.6	62.7	67.6	71.4	70.6	71.6	70.1	64.5	55.8	44.3						
8000	50.6	56.4	61.4	66.6	68.2	68.9	71.2	67.7	62.2	52.6	40.4						
10000	47.9	54.6	60.1	64.4	67.5	66.4	68.3	65.7	60.8	50.1	35.8						
12500	43.2	49.9	55.5	60.2	62.6	63.5	63.6	62.0	55.8	44.0	27.8						
16000	36.2	42.7	48.4	53.3	55.6	57.4	57.8	55.1	47.5	34.8	14.7						
20000	29.3	36.4	43.0	47.5	49.4	51.0	51.6	49.1	40.8	25.1	0.0						
25000	19.4	27.6	34.8	39.7	41.3	42.7	42.9	39.1	28.8	10.8							
31500	6.6	15.4	23.8	29.1	33.1	31.2	29.4	24.2	12.3								
40000			5.1	10.9	12.2	12.8	9.8	1.6									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.6	70.2	74.1	78.8	81.3	81.5	81.8	81.7	77.8	69.1	63.4						
PAGE	79.1	83.4	87.6	91.5	95.4	95.2	95.3	96.8	91.4	82.5	74.6						

SIDELINE 250. FT.
(86.36 M)
VEHICLE Aero
CURVE 30
LOC SCHENECTADY
DATE 1/14/75
RUN 49/3
TAPE
BAR 29.7 IN
(754. MB)
TAMB 36. DEG F
(277. DEG K)
TAFT 30. DEG F
(275. DEG K)
HACT 4.75 IN/HR
(.00475 M/HR)
NFA 8973. NFR
(730. RAD/SEC)
NFK 7111. NFR
(745. RAD/SEC)
NFI 8623. NFR
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
600. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA RECORDING PROGRAM — PWFE DATE = MONTH 3 DAY 30 NO. 10.2

FULL SCALE SOUND PRESSURE LEVELS (DB RE .0002 MICROBAR) AT 70 PERCENT RPM (NO. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

		50. (.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
FREQ.	50																			
	63																			
RADIAL 17. FT.	80																			
(5. FT)	100	73.5	73.2	74.9	75.7	75.3	76.7	77.9	78.9	80.2	85.2	88.8								113.4
VEHICLE BASE	125	74.2	75.9	77.9	77.9	78.5	78.7	78.9	80.6	82.4	85.2	88.1								114.6
COMPLE 30	160	73.7	75.9	76.1	76.1	75.5	76.2	80.2	81.4	84.2	86.9	88.8								115.2
LOC SCHEDULED	200	73.7	75.2	75.6	76.4	79.5	81.7	81.9	83.4	85.2	88.2	89.8								116.5
DATE 1/14/75	250	76.0	77.7	78.9	80.4	80.3	82.2	83.7	84.4	85.6	87.7	89.1								117.1
RUN 6974	315	77.5	79.2	79.9	81.3	81.5	82.7	82.9	83.9	85.2	87.4	87.8								117.0
TAPE	400	78.3	77.9	78.4	77.3	79.5	81.5	82.4	83.6	84.9	85.9	86.3								119.9
BAR 29.7 IN	500	74.8	75.7	78.9	77.9	79.8	80.5	82.7	82.9	83.9	85.2	85.1								119.2
(754.2 MM)	630	76.1	77.5	78.9	80.6	81.3	84.0	84.9	85.4	86.4	86.2	84.8								117.2
TAMB 38. DEG F	800	76.8	78.9	80.1	82.6	81.8	83.5	85.4	86.6	86.4	85.4	84.8								117.5
(276. DEG K)	1000	76.1	78.7	82.4	81.4	81.8	84.3	85.9	86.6	87.2	86.7	83.3								117.8
TDET 35. DEG F	1250	77.1	80.2	81.4	82.9	84.6	86.8	87.6	88.4	88.9	85.0	83.1								119.3
(275. DEG K)	1600	79.9	83.6	85.1	87.2	89.4	90.5	90.6	91.4	90.7	86.3	83.1								122.4
MACT 0.54 MACH	2000	86.4	90.5	93.9	94.5	97.4	95.1	93.9	98.1	98.6	93.5	88.8								130.0
(1838. FT/SEC)	2500	91.6	86.3	89.9	92.3	93.2	95.1	95.9	95.3	93.5	87.8	84.6								126.0
RFA 7747. RPM	3150	81.1	87.8	89.1	93.1	96.2	96.3	96.4	96.8	95.7	89.9	86.1								127.9
(811. FT/SEC)	4000	87.8	91.8	93.3	97.4	98.4	100.3	101.0	104.5	103.4	96.2	94.3								133.6
AFE 7609. RPM	5000	94.5	91.7	96.7	97.5	97.6	98.3	99.7	101.4	98.4	92.8	87.5								131.5
(826. FT/SEC)	6300	95.3	95.5	103.7	104.7	103.3	100.5	102.8	107.5	100.4	96.2	90.8								136.7
AFD 8923. RPM	8000	91.5	98.5	93.3	99.9	99.2	98.9	99.8	101.3	98.3	91.8	87.4								131.2
(924. FT/SEC)	10000	91.5	89.3	91.3	95.5	97.3	98.5	102.3	100.3	97.4	91.9	88.9								131.0
AC. OF BLADES 18	12500	93.3	97.3	91.4	96.1	97.1	98.7	99.7	99.2	96.6	91.4	87.4								130.8
FAN TIP SPEED	16000	77.3	83.5	87.3	91.2	93.7	95.8	96.8	98.2	94.2	89.8	86.8								128.4
676. FT/SEC	20000	74.3	82.5	86.5	91.1	92.3	94.6	97.3	98.9	95.7	89.0	85.9								129.0
	25000	75.9	81.5	85.1	89.6	91.3	94.1	95.8	98.1	94.4	88.5	83.4								128.8
	31500	74.9	81.1	83.8	87.4	89.6	92.8	93.9	96.2	92.9	87.4	80.9								127.8
	40000	74.1	77.7	81.6	85.7	88.2	89.7	91.6	91.9	88.9	84.4	78.2								125.9
	50000	74.4	75.2	78.5	81.1	82.5	85.9	88.0	87.9	84.8	81.1	69.9								123.7
	63000	74.0	74.2	77.8	77.7	77.9	80.4	82.9	80.8	77.9	76.4	67.4								121.3
	80000	73.5	75.8	79.3	76.8	77.1	78.8	79.2	78.4	71.3	70.8	68.3								120.1
OVERALL MEASURED																				
OVERALL CALCULATED		95.9	102.3	106.3	108.4	108.5	109.2	110.6	112.5	109.1	104.3	101.7								142.8
	PWLB	109.2	115.6	119.7	121.5	121.9	121.2	122.1	124.9	122.7	117.5	115.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 AT 10 HR. 10.2

OVERALL SOUND PRESSURE LEVELS (DB, RE. P= 70 PERCENT OF . NUM. DAYS

SIDELINE 200. FT. 80
(60.96 M)
VEHICLE
CODE 30
LOC SCHENECTADY
DATE 1/14/75
RUN 4974
TAPE
GAP 28.7 MS
(80.92 MM/S)
TAPW 30. SEC F
(276. DEG K)
T.DP 35. SEC F
(275. DEG K)
HACT 4.54 GM/M3
(.00454 KG/M3)
MFA 7747. RPM
(811. RAD/SEC)
MFK 7909. RPM
(828. RAD/SEC)
MFB 8423. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
676. FT/SEC

FREQ.	5o. (1.02)	6o. (1.19)	7o. (1.39)	8o. (1.53)	9o. (1.71)	10o. (1.90)	11o. (2.08)	12o. (2.24)	13o. (2.42)	14o. (2.60)	15o. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.5	50.2	53.1	53.3	53.6	54.7	54.2	53.1	54.8	57.5	57.4						
125	51.1	54.5	56.8	56.2	56.8	56.5	56.1	56.8	57.0	57.6	56.5						
160	53.5	53.5	54.2	54.1	54.7	56.6	57.3	57.4	58.4	59.8	57.8						
200	51.4	52.7	53.9	55.0	56.0	59.5	59.0	56.3	59.5	60.1	57.7						
250	52.6	55.1	56.8	58.7	58.8	59.9	60.6	60.2	59.8	59.4	56.7						
315	54.1	56.3	57.7	57.6	59.5	61.3	59.8	59.6	58.2	59.9	59.2						
400	52.7	55.2	56.1	57.3	57.4	59.1	58.2	59.2	58.8	57.3	53.5						
500	51.1	52.5	54.5	54.7	57.6	58.1	59.3	58.4	57.7	58.4	51.9						
630	52.2	54.3	56.4	58.4	59.5	61.3	61.4	60.7	60.0	57.2	51.4						
800	52.3	55.1	57.5	57.3	59.1	61.7	61.8	61.8	59.9	58.2	51.0						
1000	52.2	55.3	57.7	58.7	59.2	61.3	62.2	61.7	60.4	59.2	49.2						
1250	52.8	56.9	58.6	60.3	61.9	63.7	63.8	63.2	62.0	59.2	48.5						
1600	54.4	59.4	62.1	63.4	65.5	67.3	66.6	66.0	63.5	58.1	49.8						
2000	61.7	66.8	70.7	73.5	74.3	75.6	75.8	72.5	70.4	63.9	53.2						
2500	55.7	62.3	65.5	69.2	69.9	71.4	71.4	69.5	65.7	56.9	48.4						
3150	58.9	67.8	65.5	69.7	71.4	72.4	71.5	70.7	67.5	58.4	49.1						
4000	62.1	66.3	69.2	75.0	74.5	75.9	75.8	77.8	74.5	64.9	50.1						
5000	58.5	66.8	72.4	74.5	73.5	73.8	74.2	74.4	67.1	59.2	48.5						
6300	63.5	72.8	74.7	79.9	73.4	75.1	75.4	79.6	70.8	62.3	49.8						
8000	53.4	62.6	67.4	70.1	72.2	72.4	72.2	71.0	64.3	58.3	43.2						
10000	58.6	59.5	63.6	66.1	69.8	70.4	73.0	69.0	63.8	52.8	38.1						
12500	47.5	56.4	61.5	65.2	67.3	68.3	67.9	65.7	58.9	48.8	32.8						
16000	40.2	48.7	53.7	58.1	60.3	61.7	60.6	59.4	50.8	37.9	18.5						
20000	34.3	42.8	49.0	53.2	54.1	55.3	55.9	53.8	44.8	28.4	3.8						
25000	25.3	34.2	39.6	44.9	46.3	47.7	46.7	44.3	33.1	14.2							
31500	12.8	23.3	28.2	33.8	34.6	35.9	33.4	29.4	10.8								
40000		3.5	18.9	15.5	18.3	17.2	14.2	6.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.7	76.5	81.3	83.6	83.3	83.3	83.6	84.2	79.1	72.1	66.7						
PNLW	83.4	90.6	95.2	97.3	98.7	98.9	98.9	97.8	94.1	88.7	78.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PWRC. DATE = MONTH 3 AT 10 MPH, 10.2

FULL SCALE PRESSURE LEVELS (59. DEG. F, 70 PERCENT RH, NOM. DAY)
SPEEDS FROM INLET IN KNOTS (AND RADIANS)

	RPM	50. (1.32)	54. (1.49)	58. (1.66)	62. (1.83)	66. (1.71)	110. (1.88)	114. (2.06)	118. (2.24)	122. (2.42)	126. (2.60)	130. (2.78)	0. (0.)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
	50																		
	63																		
RADIAL 17. FT.	50																		
(5. KT	100	57.2	58.1	60.7	58.9	65.5	60.0	58.1	56.5	60.2	58.1	60.6							93.5
VEHICLE FANS	125	64.5	64.1	69.4	67.9	67.5	64.0	59.1	66.8	70.4	63.1	65.4							100.3
COWLING	160	55.0	57.8	57.9	57.9	57.7	58.6	57.8	56.0	61.7	62.1	62.8							92.0
LCC SCHEDULE 30	200	58.2	58.8	58.4	58.9	59.0	61.5	61.3	63.0	63.6	64.1	65.9							99.1
DATE 1/14/75	250	55.2	56.8	58.9	60.2	59.9	61.2	62.1	61.0	61.1	61.3	62.6							94.2
RUN 49/5	315	56.5	59.5	61.4	62.9	62.2	63.6	62.3	62.3	64.1	64.9	64.6							98.4
TAPE	400	55.2	57.7	60.2	61.4	61.2	62.5	62.8	64.0	65.1	63.9	62.9							95.9
BAR 29.7 IN	500	54.5	56.8	59.9	60.7	61.2	62.6	63.8	63.8	63.9	63.9	63.1							95.8
(6911.2 N/M2)	630	58.9	60.6	62.9	65.5	65.7	67.6	67.6	68.5	69.6	69.9	68.1							100.8
TAMB 37. DEG F	800	63.2	66.2	68.4	71.2	71.2	72.1	74.1	74.8	76.4	77.1	75.1							106.9
(270. DEG K)	1000	56.8	60.3	62.7	64.2	64.2	67.3	68.8	69.7	71.6	71.6	67.9							101.3
TMET 35. DEG F	1250	59.1	62.3	63.7	66.5	66.9	70.3	71.3	72.3	74.4	74.4	69.8							104.1
(275. DEG K)	1600	63.5	64.4	69.9	74.8	76.3	77.4	74.8	77.3	62.7	80.7	72.8							110.9
HACT 4.84 KG/M3	2000	60.3	64.6	66.4	70.6	71.8	74.4	74.8	75.2	75.4	74.9	69.1							108.5
(4.884 KG/M3)	2500	62.1	66.9	69.4	72.6	74.1	76.6	77.3	77.5	78.2	77.4	70.6							108.9
NFA 3157. RPM	3150	59.8	63.9	65.5	70.7	73.4	75.1	75.8	76.4	76.7	77.2	70.9							106.0
(334. RAD/SEC)	4000	58.3	62.3	64.3	67.6	72.6	73.0	74.9	76.9	77.9	78.2	69.8							107.3
NFK 3105. RPM	5000	57.0	61.8	63.8	67.9	73.3	72.8	73.4	74.8	75.3	75.4	67.5							105.8
(331. RAD/SEC)	6300	56.3	59.8	61.5	66.0	67.9	71.0	71.9	72.6	74.1	73.8	67.1							103.9
NFD 6862. RPM	8000	53.9	57.3	59.9	63.5	65.5	67.4	69.2	70.6	71.7	71.5	65.9							101.7
(924. RAD/SEC)	10000	54.2	57.1	58.6	62.3	64.7	67.3	69.0	68.9	71.8	72.3	65.1							101.0
NO. OF BLADES 15	12500	54.7	56.8	57.6	61.3	63.3	65.9	68.3	69.2	70.6	70.9	62.9							100.8
FAN TIP SPEED	16000	54.4	56.2	56.5	59.7	60.8	63.4	64.7	67.0	66.4	67.1	61.4							98.4
2730. FT/SEC	20000	55.1	56.6	57.2	58.6	60.4	62.3	63.4	65.4	66.6	64.9	60.7							97.5
	25000	55.9	56.1	57.3	59.2	58.7	60.6	61.8	63.2	64.7	63.5	60.0							96.8
	31500	56.1	57.9	57.3	59.5	58.5	60.4	61.5	62.0	64.3	62.8	59.2							97.5
	40000	56.1	57.6	58.3	58.5	57.9	59.7	59.8	61.8	61.9	61.3	58.3							97.8
	50000	58.7	58.9	60.1	60.5	59.9	61.0	60.0	61.3	60.4	60.4	59.3							100.1
	63000	58.9	58.7	60.5	60.8	58.8	61.9	60.4	60.8	59.5	60.7	59.4							100.0
	80000	60.3	58.7	60.1	59.7	58.3	60.8	59.7	61.1	58.5	60.0	59.1							100.5
OVERALL MEASURED																			
OVERALL CALCULATED		73.8	78.5	78.4	81.4	82.9	84.9	85.0	86.4	88.2	87.3	82.8							110.4
	PNOM	34.6	68.6	90.8	94.9	95.7	97.8	98.2	99.3	100.8	99.8	94.2							

PAGE 3 FULL SCALE [illegible]

PROP. DATE = MONTH 3 AT 10 HR. 10.2

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT RH. NUM. SAT

ANGLES FROM INLET IN DEGREES (AFT RADIANS)

FREQ.	0.	0.	0.	0.	0.	0.	10.	11.	12.	13.	14.	15.	0.	0.	0.	0.	0.	0.
50																		
63																		
SIREN 200. FT. 80																		
(0.0046) 100	34.2	35.6	36.3	34.4	33.3	36.4	35.4	35.7	34.8	34.5	29.2							
VEHICLE 125	43.3	41.7	47.5	41.3	45.7	41.9	36.3	42.9	45.8	35.3	33.8							
CONFIG 30 160	37.7	35.4	36.3	36.2	35.9	35.8	35.8	36.6	35.1	34.2	28.8							
LOC SCHENECTADY 200	32.8	34.2	36.4	37.1	37.1	36.2	36.4	36.9	37.8	36.2	33.8							
DATE 1/14/75 250	31.8	36.2	36.4	36.3	39.3	38.9	38.8	38.8	35.3	33.1	30.3							
RUN 49/5 315	33.0	36.2	36.1	41.4	42.2	40.3	39.2	36.3	36.2	36.4	32.8							
TAPE 400	31.5	34.3	37.9	37.4	37.1	36.7	37.6	39.6	39.1	39.2	30.9							
BAR 29.7 IN 500	32.3	33.7	36.6	36.6	37.3	40.2	42.5	36.2	37.7	35.1	30.3							
DEW 62. DEG F 630	34.2	37.6	40.5	43.2	43.4	44.6	44.1	43.9	43.5	40.9	36.7							
TAIR 37. DEG F 800	39.1	43.7	45.3	48.9	44.9	49.2	50.5	51.6	49.8	47.9	41.3							
(275. DEG K) 1000	37.7	38.5	43.3	41.7	41.7	44.3	45.1	44.4	44.6	42.1	33.7							
TJET 35. DEG F 1250	36.3	39.8	43.9	43.9	45.3	47.4	47.4	46.1	47.4	44.5	36.1							
(275. DEG K) 1600	39.1	45.8	46.9	52.1	53.4	55.1	56.7	52.9	55.4	50.5	37.8							
MACH 0.04 2000	36.1	40.3	43.2	47.5	43.9	50.9	50.5	49.7	47.9	44.4	32.5							
(0.0404 MACH) 2500	37.2	42.9	45.1	48.5	50.9	53.9	52.8	51.7	50.4	48.8	34.5							
NFA 3737. RPM 3150	34.6	39.7	42.3	47.2	49.9	51.2	51.3	50.3	50.5	45.8	33.9							
(394. REV/SEC) 4000	32.3	37.7	46.3	45.9	48.7	49.2	49.7	50.2	49.9	43.9	31.6							
NFK 3105. RPM 5000	31.3	36.6	39.5	43.4	46.1	48.1	47.8	47.8	48.1	42.7	28.8							
(331. RAD/SEC) 6300	29.2	33.9	38.4	41.2	43.1	45.8	45.5	44.7	43.8	39.4	29.1							
NFE 6023. RPM 8000	25.8	30.4	32.6	37.5	39.6	41.9	41.6	41.3	39.7	35.2	21.7							
(631. RAD/SEC) 10000	24.1	26.8	30.9	34.9	37.2	39.2	39.7	38.6	37.5	33.8	18.4							
NO. OF BLADES 15 12500	22.1	25.7	27.7	31.9	33.6	35.9	36.5	35.1	32.8	28.2	7.5							
FAN TIP SPEED 16000	17.6	21.5	22.9	25.5	27.4	29.1	28.7	28.2	25.8	18.8								
278. FT/SEC 20000	12.5	16.8	16.7	20.7	22.2	23.9	22.8	20.4	15.8	4.2								
25000	5.3	10.3	11.9	14.5	13.7	14.2	12.6	9.4	3.3									
31500			1.7	4.9	3.5	3.9	1.8											
40000																		
50000																		
63000																		
80000																		
OVERALL CALCULATED	48.7	52.5	55.1	58.1	59.5	61.0	60.2	60.3	60.3	58.3	48.9							
PWLM	58.9	64.1	66.3	70.5	72.3	73.8	73.4	72.9	72.4	68.1	58.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PRICE DATE = MONTH 3 AT 10 HR. 18.2

ACCESS FROM INLET IN INCHES (ANT PARIANS)

	FREQ.	(1.022	1.1	(1.06	(1.53	(1.7	(1.88	(2.06	(2.24	(2.42	(2.60	(2.78	(0.	) 0.	110.	110.	110.	110.	) PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(50. FT)	100	56.7	58.3	63.4	67.2	81.9	90.5	58.8	59.8	61.2	61.9	65.1							94.4
VELOCITY ACCUS	125	65.3	63.1	68.4	94.7	69.5	64.8	61.3	67.8	69.7	64.1	68.4							100.5
CURVE	160	54.2	59.1	58.7	58.9	73.3	81.9	61.8	62.3	63.9	64.5	66.0							98.2
LOC SCHENECTADY	200	57.1	59.8	60.2	61.9	61.7	63.7	64.6	66.3	66.9	67.9	69.8							98.2
DATE 1/14/75	250	54.9	60.8	62.9	64.2	63.4	65.5	65.8	65.0	65.6	65.8	66.9							98.3
RUN 4/6	315	59.5	62.5	64.2	66.9	65.2	66.4	65.8	66.8	67.4	67.9	68.4							99.6
TAPE	400	57.2	61.3	62.4	64.2	63.7	(65.)	65.1	67.2	68.1	67.4	68.1							99.0
BAR 29.7 HG	500	57.5	60.1	61.7	63.5	64.3	65.9	67.1	67.0	67.1	66.4	66.1							98.8
(1001.2 MB)	630	60.3	63.1	65.2	67.5	68.2	69.5	69.8	70.9	72.4	71.4	70.1							102.8
TAMB 37. DEG F	800	62.0	65.3	67.4	70.3	69.7	71.4	72.6	74.3	75.1	74.4	70.4							105.3
(275. DEG K)	1000	65.8	68.5	72.2	75.7	74.3	76.0	79.3	80.7	82.6	82.9	75.8							112.8
TAT 39. DEG F	1250	61.8	65.6	67.9	69.3	71.5	74.3	75.6	76.7	77.4	76.7	71.1							107.4
(275. DEG K)	1600	63.6	68.1	70.7	73.1	73.6	76.4	77.6	77.3	78.7	76.9	71.1							108.9
MACT 5.35 KG/M3	2000	70.3	75.4	77.2	77.8	79.1	82.4	83.6	83.2	84.7	83.2	78.6							114.9
(0.00335 KG/M3)	2500	65.3	70.4	73.2	75.5	77.6	80.6	81.5	82.2	82.7	78.4	73.4							112.8
MFA 3.71. MPH	3150	69.1	72.1	75.8	78.6	79.5	81.4	84.0	84.4	85.7	81.2	75.8							115.0
(405. MM/SEC)	4000	64.9	68.1	73.8	74.6	77.3	79.4	80.7	82.6	84.3	79.6	74.3							113.8
MFR 3.96. MPH	5000	63.7	67.8	71.3	75.1	77.3	79.8	80.4	81.8	82.8	77.8	72.2							112.8
(414. MM/SEC)	6300	61.7	65.6	69.3	73.5	75.1	77.7	78.1	80.3	81.8	76.5	72.3							110.7
MFD 8.23. MPH	8000	57.1	63.5	68.2	70.7	73.1	75.8	76.6	77.6	78.9	75.5	70.4							108.5
(824. MM/SEC)	10000	58.4	62.3	65.9	69.5	71.9	75.6	77.2	77.6	78.5	75.9	70.6							108.4
NO. OF BLADES 15	12500	57.6	61.2	63.8	67.5	73.5	73.8	74.6	77.4	78.9	73.4	68.8							107.7
FAN TIP SPEED.	16000	56.8	59.2	61.2	64.9	67.2	70.4	73.1	74.9	76.5	71.5	64.5							105.7
336. FT/SEC	20000	56.3	58.2	60.1	63.3	66.3	68.9	71.5	72.8	74.2	70.3	64.8							104.2
	25000	56.5	58.7	59.2	62.8	64.8	67.8	69.4	70.6	72.3	68.1	63.8							103.8
	31500	56.1	58.2	58.8	62.4	63.5	66.3	68.8	69.5	71.1	67.1	62.2							102.8
	40000	56.7	57.1	58.2	61.3	61.2	64.9	65.3	65.9	64.2	64.8	58.8							101.5
	50000	53.8	58.8	60.9	60.9	62.4	62.7	63.4	63.2	64.3	62.8	59.7							101.8
	63000	59.7	59.5	60.8	58.6	57.6	62.2	61.7	61.2	60.4	61.3	60.4							103.5
	80000	59.7	58.3	60.8	60.2	59.5	61.3	60.6	60.8	59.5	60.7	59.6							107.8
OVERALL MEASURED																			
OVERALL CALCULATED		77.1	83.3	83.5	85.4	87.2	90.9	91.3	92.1	93.3	88.5	85.6							123.2
	PNOW	98.3	94.3	96.9	98.9	100.6	103.3	104.9	105.5	106.7	103.2	98.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 AY 10 HD. 10.2

NOISE SOURCE PRESSURE LEVELS (SD. DEG. F. 70 PERCENT RE . NUM. DAY)

ANGLES FROM INLET IN DEGREES (ARE RADIANS)

FREQ	53. (1.02)	63. (1.13)	73. (1.23)	83. (1.33)	93. (1.41)	103. (1.50)	113. (1.60)	123. (1.69)	133. (2.24)	143. (2.47)	153. (2.69)	163. (2.78)	0.	0.	0.	0.	0.	0.
59																		
63																		
80																		
100	33.7	36.1	38.7	39.6	39.3	38.5	36.1	36.0	35.0	34.2	33.7							
125	41.8	41.7	40.5	43.3	40.7	42.7	38.6	43.9	44.2	38.6	38.8							
150	33.3	35.6	36.3	37.2	37.1	37.6	39.0	38.3	38.3	37.7	34.8							
200	34.1	37.3	38.2	42.1	39.3	41.5	41.6	42.2	41.2	39.7	37.5							
250	35.5	38.2	43.8	42.3	41.5	43.1	42.8	41.8	39.8	37.6	34.5							
315	36.3	39.9	42.0	44.3	43.2	43.6	42.7	42.5	41.4	39.4	35.8							
400	34.6	38.3	40.2	42.1	41.6	42.5	42.8	42.8	42.1	38.7	33.3							
500	33.9	37.2	39.3	41.3	42.2	43.2	43.7	43.5	40.9	37.6	33.8							
630	36.2	40.1	42.7	45.2	45.9	47.1	46.4	46.1	46.8	42.4	36.7							
800	38.1	42.2	44.9	47.6	47.3	46.7	49.8	49.5	48.6	45.1	38.6							
1000	41.7	45.3	49.5	52.5	51.4	55.0	55.6	55.8	55.0	53.4	41.5							
1250	37.5	42.2	45.1	46.7	48.8	51.2	51.7	51.6	50.4	46.9	38.6							
1600	37.1	44.5	47.7	52.3	53.9	53.0	53.5	51.9	50.9	46.8	38.1							
2000	45.6	51.6	54.8	54.9	56.8	56.9	56.3	57.6	57.2	52.7	43.8							
2500	48.4	48.4	49.8	52.5	54.4	56.9	57.8	56.4	54.9	47.6	37.2							
3150	42.8	47.9	52.9	53.2	55.3	57.9	56.2	56.3	57.4	49.8	38.9							
4000	33.3	43.4	46.7	50.8	53.4	55.4	55.4	55.9	55.5	47.4	38.1							
5000	37.7	42.8	46.9	51.8	53.1	55.1	55.1	54.8	52.8	48.1	38.3							
6300	34.9	39.9	43.9	48.7	50.3	52.4	52.8	52.6	50.7	42.4	31.3							
8000	31.8	38.6	41.1	44.8	47.1	49.1	49.1	46.2	40.9	39.2	28.1							
10000	28.5	33.8	37.6	42.1	44.4	46.9	47.9	48.3	44.2	36.4	21.8							
12500	25.6	30.4	33.9	38.9	43.8	44.2	44.2	43.3	40.2	29.6	13.2							
16000	23.8	24.4	27.6	31.8	33.9	38.5	37.1	40.1	33.1	20.4	8.4							
20000	13.8	18.3	21.6	25.9	28.1	29.7	30.1	27.8	23.4	9.8								
25000	9.9	11.4	13.8	18.1	19.9	20.8	20.3	18.8	11.8									
31500		8.2	9.3	7.4	8.5	9.4	7.5	2.8										
40000																		
50000																		
63000																		
80000																		
OVERALL CALCULATED	52.8	58.7	59.9	62.1	63.4	65.9	66.2	65.5	64.7	59.4	50.8							
PNDB	64.4	69.7	73.1	75.2	76.9	79.3	80.8	79.2	78.3	71.8	61.8							

SIDELINE 250. FT.
(76.20 M)
VEHICLE E-55
CONFIG 30
LOC SLIGHTLY AFT
DATE 3/14/75
RUN 49/0
PAGE
BAR 29.7 IN
(754. MM HG)
TAMB 37. DEG F
(276. DEG K)
T.D.P. 36. DEG F
(275. DEG K)
HACT 5.35 GM/M3
(0.00535 KG/M3)
NFA 3871. RPM
(405. RAD/SEC)
NFT 3856. RPM
(404. RAD/SEC)
NFC 8923. RPM
(934. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
350. FT/SEC

PAGE 1 FULL SCALE DATA VEHICLE PROGRAM

PRESSURE LEVELS (RMS, RE 20 MICRO N/SQ M, DB)
AT 1/3 OCTAVE BAND CENTER FREQUENCIES (HZ)

FREQ	50.	63.	80.	100.	125.	160.	200.	250.	315.	400.	500.	630.	800.	1000.	1250.	1600.	2000.	2500.	3150.	4000.	5000.	6300.	8000.	10000.	12500.	16000.	20000.	25000.	31500.	40000.	50000.	63000.	80000.	OVERALL MEASURED	OVERALL CALCULATED
	(1.02)	(1.27)	(1.60)	(2.01)	(2.53)	(3.21)	(4.04)	(5.08)	(6.41)	(8.08)	(10.16)	(12.82)	(16.16)	(20.32)	(25.63)	(32.31)	(40.64)	(51.26)	(64.63)	(81.27)	(102.41)	(129.03)	(162.54)	(204.82)	(258.10)	(325.08)	(409.64)	(516.20)	(650.16)	(819.28)	(1032.40)	(1300.31)	(1638.56)		
RADIAL 17. FT.	65																																		
5. FT.	100	59.3	63.8	62.7	61.9	63.3	63.0	62.4	62.7	63.9	65.9	68.1																						67.1	
VEHICLE RPMS	125	66.3	64.3	68.7	67.9	67.3	65.3	63.4	64.4	70.4	67.9	78.1																						101.2	
COUPLING 30	160	59.3	61.3	61.7	61.4	61.5	63.5	64.7	65.2	67.2	69.2	69.9																						68.4	
LOC SCHEDULED	200	61.9	62.7	63.7	63.5	64.5	66.3	66.9	68.7	69.4	70.3	71.8																						100.0	
DATE 1/14/75	250	62.3	64.3	64.9	66.4	65.5	67.7	68.2	67.9	68.1	68.9	69.3																						100.0	
RUN 4977	315	62.3	65.2	64.7	67.5	67.3	66.9	68.2	66.9	69.7	70.7	70.6																						101.9	
TAPE	400	61.3	63.5	64.7	67.1	65.5	67.1	67.9	68.3	70.2	69.9	69.1																						101.8	
BAR 29.7 IN	500	61.6	62.5	64.2	65.2	66.1	67.1	69.2	68.3	68.9	69.2	68.3																						100.9	
(1001.2 MB)	630	62.5	65.3	66.3	68.9	69.5	71.5	71.9	72.4	74.2	74.2	71.1																						104.7	
TAMB 37. DEG F	800	63.6	66.3	68.4	70.4	72.3	73.1	73.2	74.2	75.4	74.7	73.1																						106.7	
(270. DEG K)	1000	67.6	71.7	74.7	77.2	79.3	79.1	81.4	81.9	84.2	85.7	79.9																						113.9	
TWET 35. DEG F	1250	65.6	69.3	71.4	73.5	74.9	77.1	76.2	80.7	81.4	81.0	74.8																						111.1	
(275. DEG K)	1600	65.1	69.3	72.2	74.9	75.9	76.4	79.2	78.9	79.2	78.2	72.3																						110.5	
HACT 4.04 GM/M3	2000	73.6	75.3	76.9	80.3	85.2	86.1	87.9	89.4	88.9	84.3	79.8																						116.7	
(6.6404 MM/M3)	2500	67.9	73.1	75.4	79.1	81.4	83.4	84.4	84.9	83.9	80.8	75.8																						115.4	
NFA 4762. HPH	3150	68.4	77.3	79.9	83.1	85.7	88.6	86.1	84.9	86.2	82.3	77.8																						116.4	
(440. MAC/SEC)	4000	66.6	71.6	74.3	77.4	83.2	82.5	84.3	84.8	85.5	81.5	76.3																						115.4	
NFC 4355. HPH	5000	66.5	71.6	73.8	77.3	79.9	82.3	85.0	84.0	84.4	80.2	74.2																						115.8	
(350. MAC/SEC)	6300	64.8	69.3	71.7	76.2	78.5	81.9	83.2	82.8	83.8	78.9	74.3																						114.8	
NFD 8023. HPH	8000	62.7	66.7	70.3	74.4	76.4	79.4	79.8	81.0	82.0	77.4	72.8																						111.8	
(924. MAC/SEC)	10000	62.3	65.9	69.5	73.7	75.3	78.0	80.1	80.8	82.4	77.5	72.5																						111.6	
NO. OF BLADES 15	12500	62.6	64.8	67.6	72.3	74.2	76.4	79.4	80.1	81.9	76.3	71.1																						111.8	
FAN TIP SPEED	16000	61.3	63.2	64.7	67.4	73.6	73.8	75.5	78.4	80.1	74.4	69.1																						108.9	
372. FT/SEC	20000	59.4	63.3	63.4	67.3	69.7	72.0	74.0	76.1	77.8	72.4	68.1																						107.4	
	25000	61.7	64.1	64.3	67.8	69.5	71.1	72.1	74.2	75.7	71.5	68.7																						100.6	
	31500	61.9	64.1	63.5	66.7	68.3	70.3	71.1	72.8	74.3	70.4	68.1																						100.5	
	40000	62.7	63.8	63.9	66.2	66.3	69.0	68.9	70.0	71.2	68.9	66.5																						103.9	
	50000	65.5	65.8	66.3	67.7	66.3	69.3	68.3	68.8	68.4	66.7	66.0																						107.6	
	63000	67.4	68.1	68.2	68.8	67.3	70.4	68.2	68.5	67.6	69.3	67.3																						111.1	
	80000	69.8	68.7	69.6	68.2	67.3	70.1	69.5	68.7	68.3	69.5	68.1																						115.6	
OVERALL MEASURED																																			
OVERALL CALCULATED		79.9	83.3	86.3	89.3	91.5	93.0	94.8	95.1	95.1	92.8	87.9																						120.0	
PMSE		91.5	97.8	100.3	103.3	105.5	108.1	107.5	107.8	107.9	104.9	100.8																							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 AT 10 HR. 10.2

MODEL SCALE PRESSURE LEVELS 150. DEG. F. 70 PERCENT RE . NOM. DATA

ANGLE FROM INLET IN DEGREES (AND RADIANS)

		30.	50.	70.	90.	110.	130.	150.	170.	190.	210.	230.	0.	0.	0.	0.	0.	0.
	FREQ	(.52)	(.87)	(1.22)	(1.57)	(1.92)	(2.27)	(2.62)	(2.97)	(3.32)	(3.67)	(4.02)	(2.03)	(2.74)	(0.)	0.	(0.	(0.	(0.	(0.)
	50																	
	63																	
SIDELINE DIST. FT.	80																	
(6.1 M)	100	37.7	38.3	40.1	41.3	41.1	41.0	39.7	38.9	38.4	38.3	36.7						
VEHICLE [illegible]	125	42.3	41.3	40.0	44.2	43.6	43.2	40.7	44.5	43.8	43.1	38.5						
CONFIG [illegible] 30	160	35.3	38.5	39.4	39.7	39.7	41.3	41.4	41.2	41.2	41.2	37.7						
LOC SLAT-EDGE-V	200	39.5	41.3	41.7	41.1	42.9	44.3	44.2	44.5	43.7	42.4	39.5						
DATE 3/14/75	250	39.9	41.4	42.4	44.3	43.9	45.1	45.1	43.7	42.3	40.8	37.8						
RUN 467	315	37.6	42.8	44.5	45.7	45.2	46.1	45.8	44.9	43.7	42.2	38.0						
TAPE	400	37.7	43.7	42.4	43.3	43.4	44.7	44.7	44.5	44.1	41.3	39.2						
BAR 29.7 IN	500	35.7	39.5	41.4	43.3	43.4	45.1	45.8	44.4	42.7	40.4	39.2						
(101.2 MBAR)	630	39.8	42.3	44.5	46.7	47.2	48.8	48.5	47.8	47.8	45.2	37.8						
TAMB 37. DEG F	800	39.6	41.2	45.4	47.1	47.9	49.1	48.4	48.1	48.5	45.4	37.3						
(276. DEG K)	1000	43.3	44.5	52.7	53.7	53.7	54.1	53.7	53.9	53.4	50.2	45.4						
TWCI 35. DEG F	1250	41.4	45.3	48.6	50.4	52.2	54.4	55.3	56.5	54.5	51.2	40.3						
(275. DEG K)	1600	45.7	46.3	49.2	52.1	53.9	55.1	56.1	53.6	52.8	49.1	37.3						
MACH 0.84	2000	45.8	51.6	53.7	59.3	62.1	62.9	63.6	63.8	57.4	53.8	44.2						
(286.56 M/S)	2500	43.3	49.1	52.8	55.9	59.2	59.7	59.9	59.1	56.2	49.9	39.6						
RPM 4202. RPM	3150	43.2	53.1	56.2	59.7	62.2	64.7	61.3	54.7	58.8	50.9	40.6						
(440. RAD/SEC)	4000	40.7	47.1	50.1	54.9	58.2	59.4	58.6	58.1	54.4	49.2	39.8						
NFK 4395. RPM	5000	43.5	46.1	49.4	53.2	56.7	57.9	58.4	57.8	55.6	47.5	38.3						
(456. RAD/SEC)	6300	38.8	43.8	46.7	51.4	53.8	55.6	56.9	54.9	53.5	44.8	33.3						
NFD 4823. RPM	8000	34.6	39.3	44.1	48.4	52.5	52.9	52.2	51.7	50.9	41.8	30.4						
(924. RAD/SEC)	10000	32.1	37.3	40.3	45.3	47.5	49.4	50.7	49.5	48.8	38.3	23.8						
NO. OF BLADES 15	12500	29.4	33.9	37.7	42.7	44.5	46.4	47.6	46.8	44.6	32.5	15.7						
FAN TIP SPEED	16000	24.1	28.4	31.1	35.3	37.3	38.4	38.5	38.6	36.7	23.3	2.9						
372. FT/SEC	20000	17.9	23.1	25.3	29.4	31.5	32.0	32.6	31.1	27.8	11.8							
	25000	11.1	15.3	18.7	22.7	23.9	24.7	23.8	20.3	14.4								
	31500		6.1	6.8	12.1	13.8	13.4	10.6	6.2									
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		53.8	58.3	62.5	65.7	67.8	69.0	68.4	68.5	66.2	61.8	52.2						
PNOW		68.8	73.4	76.6	79.9	82.8	84.1	82.6	81.8	79.6	73.4	63.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

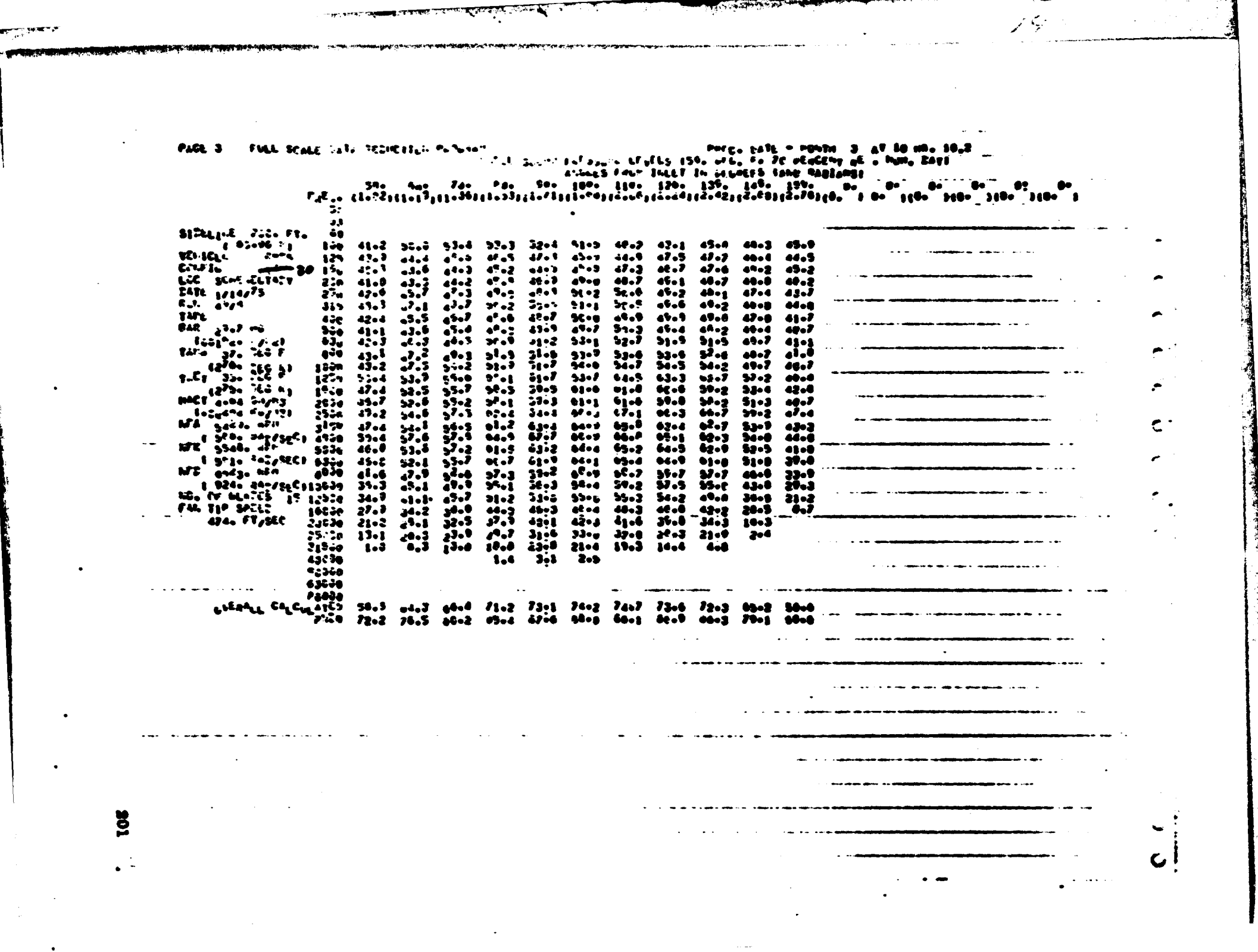
PHASE DATA - MONTH 3 AT 10 HR. 10.2

MODEL SOUND PRESSURE LEVELS (DB, RE: 2E-5 PASCALS, 1 SEC. MEAN, DAY)

AZIMUTH FROM INLET 1. DEGREES (CW FROM AFT)

	FREQ.	0.	30.	60.	90.	120.	150.	180.	210.	240.	270.	300.	330.	360.	PWL
	50														
	63														
RATIAL 17. FT.	80														
1 5. FT	100	64.3	72.3	75.2	74.9	74.8	73.5	78.9	66.9	71.2	79.9	77.3			107.3
VEHICLE SPEED	125	67.3	68.9	73.4	90.1	69.8	68.3	67.7	71.4	73.2	74.2	70.1			104.4
CONFIG 30	160	64.3	65.1	75.9	97.3	66.3	67.3	73.2	71.7	73.2	74.2	77.1			104.4
LOC STATIONARY	200	64.3	65.5	66.2	97.6	69.8	71.3	71.7	73.2	74.4	76.9	78.3			105.8
DATE 1/14/75	250	66.8	68.2	69.4	70.9	73.3	72.5	73.7	73.4	73.9	75.7	76.1			108.2
RUN 4908	315	67.3	69.7	70.9	72.1	72.3	73.5	73.7	73.9	75.2	76.4	76.8			107.8
TAPE	400	68.1	69.2	69.7	72.4	72.9	72.3	73.2	74.2	75.9	75.7	74.6			108.3
BAR 29.7 IN	500	64.8	66.5	69.2	70.2	71.1	72.3	73.7	73.9	74.4	75.2	73.8			105.9
(993.2 MB)	630	66.1	68.3	70.8	73.2	73.6	75.8	76.2	76.4	77.9	77.7	74.6			108.6
TAMB 37. DEG F	800	67.1	69.3	71.9	74.2	74.1	75.8	77.2	78.4	79.2	77.9	74.8			109.5
(276. DEG K)	1000	67.4	70.7	72.9	74.4	74.3	77.8	78.4	79.4	80.9	79.2	74.8			110.7
TAIR 35. DEG F	1250	74.6	77.3	79.8	82.7	81.4	80.5	80.4	80.4	80.7	87.8	81.3			119.5
(275. DEG K)	1600	71.9	76.1	78.7	81.3	82.4	84.9	85.8	85.9	86.4	83.5	77.8			117.1
NACI 8.04 IN/SEC	2000	71.4	76.3	78.4	81.1	82.4	84.6	85.9	85.4	85.7	81.9	76.3			116.7
(204.4 MM/SEC)	2500	74.1	79.6	81.3	85.5	87.7	89.8	91.6	92.1	94.4	90.3	83.6			123.1
WFA 5427. RPM	3150	72.6	78.3	80.1	84.6	86.7	88.4	89.4	89.4	90.9	85.3	80.3			120.9
(568. FT/SEC)	4000	76.1	82.3	81.4	87.5	91.7	91.3	92.8	91.8	91.1	86.2	82.3			123.4
WFA 5049. RPM	5040	72.3	79.8	81.5	85.8	87.4	89.8	90.7	91.5	92.1	85.2	79.9			121.9
(501. FT/SEC)	6350	72.3	77.3	80.7	85.4	86.8	89.5	91.7	92.8	91.3	85.1	80.8			122.4
WFA 4668. RPM	8000	69.7	74.7	76.3	82.2	85.2	87.4	88.3	89.2	89.7	83.1	78.1			119.8
(826. FT/SEC)	10080	68.3	73.6	77.5	82.5	83.9	86.5	88.6	88.4	89.4	83.1	78.1			119.5
NO. OF BLADES 15	12700	67.3	72.3	75.4	80.3	82.7	85.4	87.2	88.4	87.6	81.9	76.8			118.5
FAN TIP SPEED	16000	64.7	69.3	72.5	77.2	79.6	82.6	84.3	85.7	85.6	79.6	74.8			116.2
826. FT/SEC	20000	63.7	68.3	72.3	75.8	78.2	81.3	83.8	84.8	85.1	78.9	74.1			115.7
	25000	63.7	67.3	69.3	74.4	76.5	79.4	81.1	82.2	83.2	78.5	72.2			114.2
	31500	63.4	66.4	68.5	73.4	75.3	78.3	79.9	81.2	81.6	79.4	78.4			114.8
	40000	63.4	65.3	66.9	70.7	73.3	75.9	77.4	77.7	78.2	72.9	66.8			112.3
	50000	65.3	66.3	67.5	69.3	70.1	72.8	74.3	73.8	73.7	70.7	67.8			111.3
	63000	67.7	68.1	69.0	68.5	68.1	70.8	70.7	70.8	69.3	69.8	67.6			111.8
	80000	69.8	67.2	69.6	68.7	67.8	69.8	68.5	66.5	66.3	70.8	66.3			110.8
OVERALL MEASURED															
OVERALL CALCULATED		84.4	88.9	91.3	95.3	97.3	99.8	106.5	101.8	101.5	96.7	92.3			122.8
	PWL	97.9	103.1	104.1	109.1	111.4	112.2	113.3	113.4	114.5	110.3	105.4			

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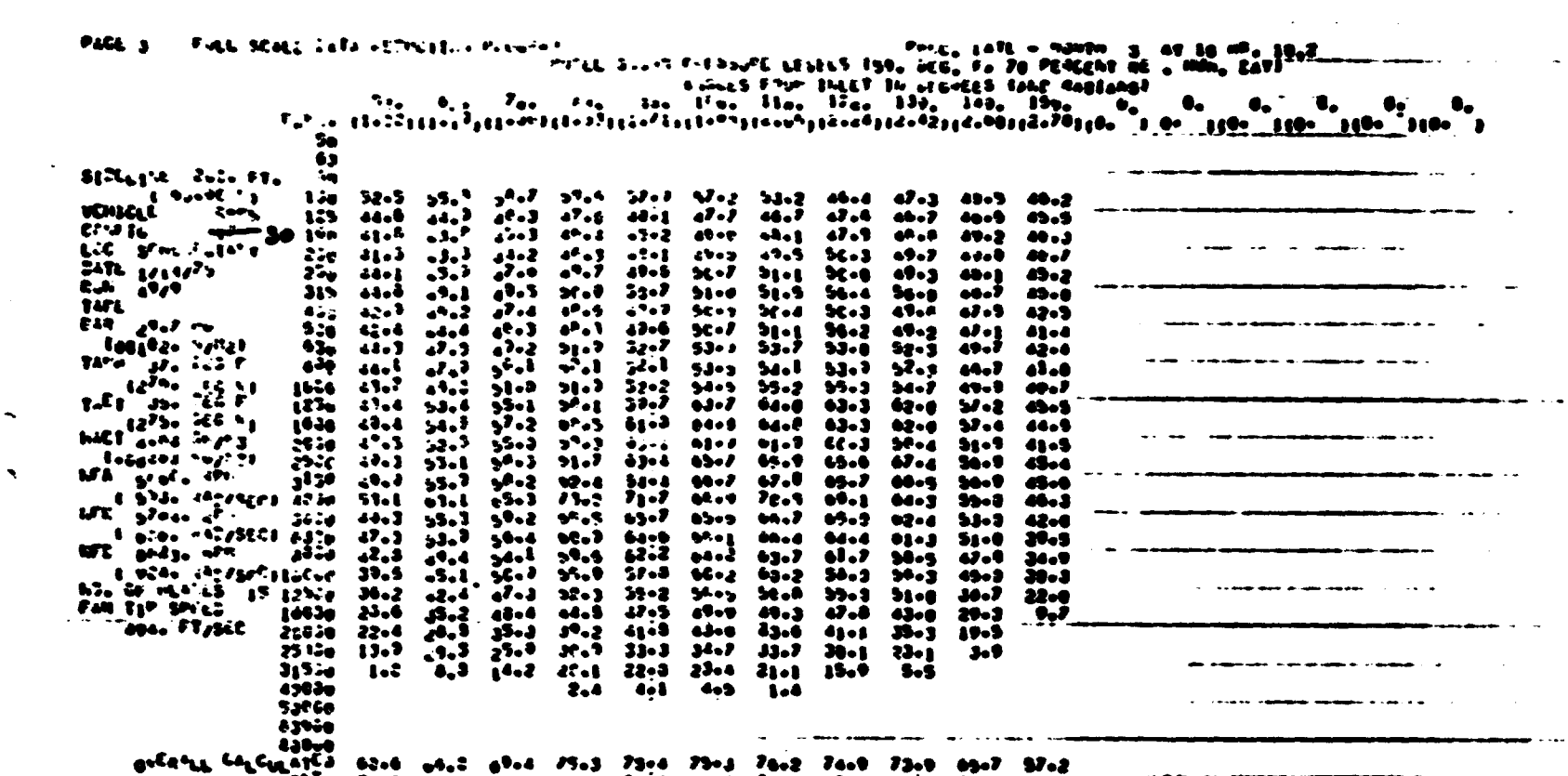
PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL DATE - MONTH 3 DAY 10 NO. 10.2

MODEL SCALE FACTOR OF 150. WAS TO BE PLACED AT 0. MACH. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL STA. FT.		0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°	0°	90°	180°	270°	0°	AVG.
	30																		
RADIAL STA. FT.	50																		
VERTICAL	105	75.5	78.1	81.4	81.1	79.5	79.3	78.6	76.2	72.7	71.2	77.0							112.2
CONFIG	105	67.3	69.3	72.2	80.6	69.8	69.4	69.4	71.7	74.2	74.4	77.1							109.1
LOC SCHEDULED	30 169	65.8	68.3	69.2	68.1	67.8	68.8	70.9	71.9	74.4	77.2	77.8							109.3
DATE 1/14/72	209	64.8	65.2	69.2	67.1	70.8	71.0	73.4	74.4	75.4	77.9	74.8							108.8
RUN 4979	249	67.5	67.5	69.7	71.6	71.5	73.4	74.2	74.2	75.1	74.4	77.6							107.9
TAPE	289	68.3	72.7	71.7	72.9	72.8	74.3	74.7	74.7	75.9	77.2	77.8							107.9
BAP 29.7 MS	329	68.6	69.8	69.7	70.4	71.2	73.0	73.7	74.7	75.9	74.4	78.3							108.0
[illegible]	369	64.1	67.3	69.7	70.3	71.8	73.3	74.4	74.7	75.4	75.9	74.8							108.7
TAP 37. SEC 1	409	67.1	72.1	71.7	74.2	73.1	74.8	77.2	77.7	78.7	78.7	75.8							109.8
(270. SEC 1)	449	68.1	71.4	72.7	74.4	74.9	76.3	77.7	78.7	74.8	77.9	79.4							109.4
T-T1 35. SEC 1	489	72.6	76.3	77.9	77.7	77.5	77.6	77.6	76.9	81.4	79.4	74.8							111.0
(275. SEC 1)	529	72.6	76.3	77.9	77.7	82.4	80.6	82.9	80.4	80.9	87.8	80.1							119.8
	569	73.9	78.3	80.2	83.1	84.8	84.1	68.9	80.7	80.2	87.5	79.8							119.9
MACT 4.44 [illegible]	609	72.1	76.5	78.7	81.3	83.2	85.4	86.1	85.9	85.8	82.3	77.1							119.2
[illegible]	649	73.9	77.1	81.4	84.2	85.7	89.4	90.4	91.4	95.2	87.8	81.6							124.7
M 5000. MIN	689	75.1	80.1	81.9	85.9	87.5	90.8	91.9	91.9	90.7	84.3	82.6							123.9
NPR 5000. LBS/SEC	729	79.8	84.8	83.1	96.9	95.7	91.3	95.8	95.8	93.1	87.2	84.5							127.4
NPR 5000. MIN	769	74.3	81.3	83.5	89.5	89.8	91.3	92.2	92.8	91.6	85.7	80.9							123.2
4500. LBS/SEC	809	77.4	79.6	81.5	85.7	89.5	91.5	92.7	92.3	91.6	89.1	80.5							123.2
NPR 4000. MIN	849	78.8	79.2	80.3	84.4	88.2	90.7	91.3	91.8	90.5	84.1	79.1							122.1
3500. LBS/SEC	889	67.5	73.6	73.5	83.2	85.3	88.3	88.8	86.3	90.6	84.4	79.1							118.8
NO. OF PLATES 15	929	69.7	74.3	74.3	81.5	84.9	88.4	88.7	86.1	88.8	82.5	77.3							119.7
FAN TIP SPEED	1000	65.5	69.9	74.4	77.9	83.8	84.1	85.3	84.7	88.4	88.4	79.8							117.2
884. FT/SEC	1040	64.9	68.3	72.4	77.1	81.8	83.8	85.8	84.1	86.1	86.2	76.9							117.1
	1080	64.5	67.8	71.3	75.6	79.3	81.1	82.9	83.9	84.5	78.3	72.9							115.8
	1120	63.4	65.9	69.8	74.7	77.8	80.3	81.6	82.7	82.3	77.2	71.1							115.4
	1160	64.2	65.3	67.9	71.7	74.3	77.8	78.9	79.5	78.7	74.4	67.8							113.9
	1200	64.5	64.6	68.4	70.9	73.3	73.8	75.6	75.5	74.7	72.2	67.8							112.4
	1240	67.7	66.6	68.8	68.3	68.1	71.8	71.2	71.8	70.1	73.8	68.1							112.8
	1280	76.8	67.2	68.6	68.7	68.9	70.3	68.5	66.5	68.6	68.6	68.1							110.8
OVERALL MEASURED																			
OVERALL CALCULATED		84.3	82.5	83.3	89.3	89.7	106.3	132.1	168.2	163.8	97.3	92.9							133.7
PLANE		89.6	106.9	108.2	114.3	114.2	113.8	115.7	119.7	116.6	110.3	100.3							



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PREC. DATE = MONTH 3 AY 10 HR. 10.2

TOTAL SOUND PRESSURE LEVELS (DB re 20 MICRONEWTONS/SQ METER) AT 70 PERCENT RPM = NUMBER OF BLADES

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RPM	50. (0.87)	60. (1.05)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	160. (2.79)	0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
1800	70.3	72.1	73.1	74.1	74.3	74.3	72.2	70.9	72.2	74.2	79.3								100.0
1850	69.0	67.8	70.9	68.3	73.3	74.3	70.4	72.9	74.9	75.7	78.1								100.0
1900	65.5	67.5	67.7	69.1	69.5	69.5	71.9	73.2	75.7	78.2	79.1								100.4
1950	65.3	67.2	67.7	68.4	71.1	72.3	73.9	75.9	78.9	78.7	80.1								107.0
2000	67.1	70.1	71.7	72.9	72.9	73.7	74.3	74.9	75.9	77.9	78.6								110.0
2050	69.5	71.5	72.7	74.1	74.3	74.8	75.4	75.3	76.4	78.7	78.0								110.0
2100	67.8	69.5	70.7	71.9	73.8	73.3	74.7	75.7	76.9	77.4	77.1								107.7
2150	66.5	68.9	69.4	71.9	72.6	74.3	75.4	75.2	75.9	76.7	75.8								107.5
2200	68.9	72.3	73.9	76.2	76.1	78.3	78.2	78.9	79.4	79.5	78.8								111.0
2250	68.9	71.8	73.4	75.4	75.3	77.1	78.7	79.4	80.2	79.2	78.3								110.6
2300	69.5	72.3	74.4	75.2	75.3	76.3	80.2	80.9	82.4	79.9	78.1								112.0
2350	72.5	76.5	79.4	80.3	81.9	84.1	85.9	86.9	86.9	85.2	80.3								117.3
2400	77.6	81.6	84.4	86.3	87.1	88.9	92.2	91.9	96.7	91.2	84.3								122.6
2450	73.4	77.1	79.7	82.9	83.4	86.4	87.4	86.9	86.4	82.9	78.3								118.1
2500	74.1	78.3	81.9	84.3	85.7	89.9	89.9	91.1	92.7	85.3	81.3								121.7
2550	76.9	82.1	83.1	86.1	90.9	92.4	92.9	95.9	99.4	88.0	85.8								126.3
2600	77.3	81.3	85.1	91.1	93.9	95.3	95.8	93.8	92.8	84.5	82.8								126.2
2650	77.3	81.2	84.3	90.8	93.1	94.5	95.5	93.7	93.1	87.9	82.2								125.6
2700	78.8	79.1	85.9	87.4	88.8	92.3	93.0	93.3	92.1	86.1	81.3								123.8
2750	72.3	77.2	81.8	86.4	88.7	90.9	91.3	92.5	92.2	85.4	80.9								122.9
2800	71.3	76.1	80.3	85.2	86.6	89.5	90.8	91.8	91.4	85.4	80.8								122.1
2850	72.2	74.3	78.9	83.3	84.9	87.9	90.7	91.4	90.6	83.5	78.8								121.4
2900	67.2	71.4	75.5	79.7	82.9	85.1	86.9	88.7	87.4	81.4	76.6								118.7
2950	65.9	70.3	74.7	78.3	81.2	84.0	86.2	88.6	87.1	81.2	75.8								118.6
3000	65.3	68.6	73.1	76.9	79.3	82.1	84.1	86.2	85.2	79.9	74.2								117.1
3050	64.7	68.1	71.3	74.2	78.3	81.3	82.4	84.4	84.1	77.9	72.6								116.7
3100	64.4	66.3	69.7	72.7	75.3	78.0	79.9	81.0	80.7	75.4	68.3								113.8
3150	67.3	66.3	69.4	70.7	72.1	75.3	76.8	76.8	75.4	73.0	68.5								113.5
3200	68.9	66.4	69.5	69.3	69.6	71.0	71.9	71.5	70.6	70.6	68.8								112.9
3250	69.3	67.4	69.0	68.9	69.1	70.3	70.0	70.2	68.8	69.8	69.1								110.2
OVERALL MEASURED																			
OVERALL CALCULATED	64.7	68.5	73.8	78.1	130.1	102.1	103.1	103.4	104.0	98.3	94.1								134.0
PWSM	99.3	104.3	108.9	111.6	113.7	115.4	116.2	116.4	116.2	111.0	107.7								

RADIAL 17. FT. 30

VEHICLE NAME

CONFIG

LOC SLIDELL,LA

DATE 1/14/75

RUN 43/14

TAPE

BAR 29.7 IN HG

(1001.2 MB)

TAMB 37. DEG F

(276. DEG K)

TWET 35. DEG F

(275. DEG K)

HACT 4.04 GM/KG

(28.28 GM/KG)

NFA 5090. RPM

(617. RAD/SEC)

NFK 6140. RPM

(630. RAD/SEC)

NFB 8963. RPM

(926. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 514. FT/SEC

FULL SCALE DATA REDUCTION - PARTIAL

PAGE, DATE = MONTH 3 AT 10 HR. 10.2

MODEL SOUND PRESSURE LEVELS (59. DB, F. 70 PERCENT RE . NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	54. (.82)	63. (.91)	72. (1.05)	81. (1.13)	90. (1.31)	108. (1.88)	117. (2.04)	126. (2.20)	135. (2.36)	144. (2.51)	153. (2.67)	0. (.0)	0. (.0)	0. (.0)	0. (.0)	0. (.0)	0. (.0)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.3	49.3	51.7	51.9	52.7	52.2	49.5	47.1	44.9	48.5	47.9						
VEHICLE SIDE	125	44.9	45.4	49.1	47.2	49.6	44.2	47.7	49.9	49.5	47.9	48.5						
CONFIG 30	160	42.3	45.1	45.8	47.4	46.7	47.3	49.1	49.2	50.1	50.2	47.2						
LOC SCRATCHPAD	200	42.3	44.3	45.7	47.5	49.1	50.3	51.3	51.8	51.2	50.6	48.0						
DATE 1/14/75	250	44.4	47.4	49.0	51.1	53.5	51.4	51.7	50.7	50.1	49.9	49.2						
RUN 09/16	315	46.3	48.3	50.5	52.2	52.7	52.3	52.3	51.6	50.5	50.2	48.0						
TAPE	400	44.2	46.7	48.4	49.5	49.7	50.7	51.4	51.3	50.4	48.8	44.2						
BAR 29.7 IN	500	42.9	45.9	47.1	48.3	50.5	51.7	52.1	50.7	49.7	47.9	42.7						
(100.52 M/SEC)	630	45.8	49.3	51.5	53.2	54.3	54.1	54.7	54.3	53.0	50.4	43.4						
TAT 37. DEG F	800	44.9	48.7	50.4	53.1	52.9	54.2	55.1	54.6	53.4	49.9	42.5						
(276. DEG K)	1000	44.5	48.3	51.7	52.7	53.2	53.3	56.4	55.0	55.7	52.1	41.9						
T-CT 35. DEG F	1250	47.4	53.2	55.4	57.4	57.2	61.1	62.9	61.4	60.8	55.1	45.6						
(275. DEG K)	1600	53.2	58.9	61.4	62.5	64.3	65.6	68.1	66.6	63.5	61.1	49.3						
MACT 0.01 SM/SM	2000	48.7	53.3	56.5	59.3	62.3	62.2	63.1	61.3	54.9	52.3	42.7						
(0.0404 KG/KG)	2500	49.2	54.4	58.3	62.2	63.4	65.2	65.4	65.3	64.9	54.4	45.2						
NFA 5600. RPM	3150	51.7	57.2	59.3	64.7	67.4	68.4	68.3	69.7	71.2	58.6	48.6						
(617. RAD/SEC)	4000	51.5	57.1	61.1	67.3	73.3	70.4	70.5	67.1	63.8	58.2	44.5						
NFK 6119. RPM	5000	51.3	56.1	60.5	66.7	69.3	69.9	69.9	66.7	63.9	55.2	43.3						
(630. RAD/SEC)	6300	49.0	53.4	59.7	62.7	63.9	66.9	66.6	65.4	61.8	52.0	40.3						
NF3 8623. RPM	8000	44.3	50.4	55.9	60.5	62.7	64.4	63.7	63.2	60.2	49.9	38.6						
(902. RAD/SEC)	10000	41.3	47.5	52.6	57.9	59.3	61.4	61.5	60.5	57.0	46.0	31.8						
NO. OF BLADES 15	12500	37.7	43.9	49.3	53.7	55.2	57.5	56.8	57.2	52.8	39.7	23.5						
FAN TIP SPEED	16000	30.4	36.7	41.9	46.5	49.5	50.9	50.8	49.8	44.0	30.3	10.4						
5100. FT/SEC	20000	23.4	30.1	36.2	40.9	43.1	44.8	44.8	43.6	36.3	20.5							
	25000	14.4	21.3	27.7	32.2	34.3	35.7	35.0	32.3	23.9	4.7							
	31500	2.3	10.1	16.3	21.5	23.3	24.4	21.8	17.7	7.3								
	40000				3.4	5.4	5.5	2.4										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.2	65.9	69.5	73.4	75.7	77.1	77.2	75.9	74.8	66.8	58.6						
PNLT		74.2	79.6	83.0	87.5	89.9	91.1	91.0	90.0	89.9	79.4	70.7						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA PRODUCTION PROGRAM — PAGE DATE = MONTH 3 AT 10 HR. 10.2

SIDE SURFACE PRESSURE LEVELS (50. DEG. TO 70 PERCENT OF CHORD) ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.13)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0.	0.	0.	0.	0.	PNL
	50																		
	63																		
RADIAL 17. FT.	79																		
(5. PSI	100	69.3	73.3	71.4	74.1	75.8	76.3	75.2	73.4	75.7	79.4	81.6							109.0
VEHICLE NOSE	125	69.8	71.3	72.2	72.1	73.9	73.8	73.4	75.9	77.2	78.9	81.1							110.0
CONFIG 30	159	68.2	70.3	73.4	71.4	71.9	72.3	74.2	75.7	76.2	80.9	82.1							109.1
LOC SCHEDULE TV	200	66.2	69.5	69.9	71.6	73.3	75.3	76.4	77.9	79.4	81.9	83.6							110.5
DATE 1/14/75	250	70.8	72.2	73.7	77.9	74.8	75.7	77.4	77.7	78.4	80.7	82.1							110.6
RUN 49/11	315	72.0	74.3	74.9	77.4	76.3	77.5	77.9	76.4	79.4	81.4	81.8							111.5
TAPE	400	70.1	71.5	72.4	73.5	74.0	76.3	76.9	77.9	78.9	80.2	80.3							110.1
BAR 29.7 IN	500	68.3	70.3	71.7	73.7	74.8	75.8	77.9	77.9	78.7	79.2	78.8							109.9
(1016. MM/HG)	630	70.1	72.3	74.2	76.2	77.3	79.1	79.9	80.4	81.4	81.3	79.6							112.2
TAMB 36. DEG F	800	72.9	73.8	75.4	74.9	77.3	78.8	80.9	81.2	81.7	80.7	79.3							112.6
(278. DEG K)	1000	72.9	73.7	76.2	77.2	77.8	81.1	82.2	82.7	83.4	81.2	78.3							113.8
T.CT 36. DEG F	1250	73.1	76.3	78.4	80.5	32.1	84.3	85.9	85.9	85.9	82.9	79.1							116.8
(275. DEG K)	1590	82.4	88.6	90.4	93.5	94.1	95.4	94.9	94.9	92.7	90.9	84.3							120.9
MACH 0.54	2000	76.2	80.3	82.7	84.3	36.7	89.1	91.2	90.4	89.2	84.5	80.6							121.3
(1.0434 M/SEC)	2500	75.1	81.8	83.2	87.5	34.9	90.6	91.6	96.9	90.7	84.9	80.9							122.3
AFA 0438. AFP	3150	78.6	82.3	86.4	90.6	94.2	95.1	95.6	95.6	95.7	90.9	87.1							120.9
(674. RAD/SEC)	4000	76.6	82.1	85.8	90.4	91.9	93.4	94.8	94.8	92.9	87.2	83.0							125.3
AFK 0572. AFP	5000	78.6	88.3	94.0	97.4	95.9	100.1	100.0	102.0	97.4	90.7	86.8							131.5
(880. RAD/SEC)	6300	76.9	81.6	95.2	96.5	93.0	93.3	95.8	95.8	93.1	87.9	83.8							125.9
AFB 0623. AFP	8000	74.5	80.9	84.3	89.3	91.2	92.7	95.3	94.1	92.9	87.1	82.4							125.2
(924. RAD/SEC)	10000	74.1	81.2	84.1	88.5	91.1	93.3	94.3	94.1	93.4	87.7	82.8							125.2
NO. OF BLADES 15	12500	72.8	77.3	82.7	86.6	89.2	90.7	94.0	93.4	91.9	85.8	80.9							124.1
FAN TIP SPEED	16000	69.9	74.8	78.8	83.5	85.9	88.4	90.6	92.3	89.4	83.5	79.1							122.0
982. FT/SEC	20000	61.3	73.4	77.4	82.7	84.5	87.0	89.8	92.1	89.4	83.9	78.4							121.9
	25000	67.7	72.3	76.1	81.1	83.8	85.4	87.4	89.6	87.4	81.8	76.9							120.6
	31500	66.7	73.9	75.1	77.9	82.1	85.1	86.6	87.7	86.9	80.7	74.8							120.2
	40000	65.9	68.5	72.2	76.5	78.5	81.7	83.9	84.5	83.4	78.1	73.8							118.4
	50000	67.6	67.2	71.8	72.9	75.5	77.9	80.0	79.4	78.6	74.9	68.9							116.3
	63000	69.8	66.5	70.8	69.8	72.1	73.4	74.8	72.8	72.9	70.9	70.4							116.8
	80000	70.3	69.5	70.3	68.9	70.3	70.6	70.7	70.2	69.8	70.9	70.1							116.8
OVERALL MEASURED																			
OVERALL CALCULATED		98.7	94.4	98.1	101.9	102.3	105.0	105.9	106.5	104.3	99.6	96.1							137.2
	PWL	101.4	107.9	112.1	115.6	115.6	118.4	118.9	120.0	117.2	112.7	109.4							

FULL SCALE DATA REDUCTION PROGRAM

PAGE. DATE = MONTH 3 AT 10 HR. 10.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT RE. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	60. (1.02)	70. (1.19)	80. (1.36)	90. (1.53)	100. (1.71)	110. (1.88)	120. (2.06)	130. (2.24)	140. (2.42)	150. (2.60)	160. (2.78)	0. (0.	0.) 0.	0. 0.	0. 0.	0. 0.	0. 0.
50																	
63																	
80																	
100	45.0	51.0	51.7	52.6	54.1	54.2	52.5	49.6	50.3	51.9	50.4						
125	46.6	48.7	50.3	50.3	51.3	51.7	50.7	52.0	51.7	51.1	49.5						
160	44.3	47.6	48.5	49.7	49.2	50.1	51.3	51.7	52.6	53.0	50.2						
200	44.7	47.3	47.3	49.9	51.4	53.3	53.5	53.8	53.7	53.8	51.5						
250	47.4	48.7	51.6	52.0	52.8	53.4	54.4	53.5	52.8	52.4	49.7						
315	48.5	51.3	52.7	54.4	54.2	55.1	54.8	54.1	53.5	53.0	49.2						
400	46.4	48.7	50.2	51.6	51.9	53.7	53.7	53.5	52.9	51.5	47.5						
500	44.6	47.4	49.3	51.5	52.6	53.2	54.6	53.6	52.4	50.4	45.7						
630	45.3	48.3	51.7	53.8	55.0	56.3	56.5	56.9	55.0	51.9	46.1						
800	45.9	50.7	53.9	54.6	54.9	56.6	57.3	56.4	55.1	51.4	45.5						
1000	46.7	50.5	53.5	54.7	55.2	58.1	58.4	57.7	56.7	51.7	44.2						
1250	48.9	52.9	55.6	57.3	58.4	61.2	62.8	60.8	59.0	52.2	44.5						
1600	51.0	55.0	57.4	60.7	61.3	64.2	65.8	63.4	61.7	54.0	45.0						
2000	51.5	56.6	59.5	63.3	63.6	65.9	64.9	64.8	61.7	54.0	45.0						
2500	50.2	56.3	59.0	63.7	65.7	67.0	67.1	65.1	62.0	53.9	44.7						
3150	53.4	58.6	62.7	67.2	70.7	71.2	73.8	69.4	67.5	59.4	50.1						
4000	53.9	57.4	61.3	66.5	69.0	69.0	69.5	67.3	64.0	55.0	46.8						
5000	52.5	63.3	69.7	72.5	71.7	73.4	74.4	73.0	68.1	58.0	47.0						
6300	57.0	55.9	60.2	67.7	69.2	67.9	68.7	67.9	62.8	53.9	42.6						
8000	46.4	53.2	58.2	63.1	63.3	66.2	67.7	64.7	60.8	50.8	38.2						
10000	44.1	52.4	56.4	61.2	63.8	65.4	65.0	62.8	59.0	48.3	33.9						
12500	42.2	49.4	52.8	57.1	59.5	60.3	62.1	59.3	54.1	42.8	28.5						
16000	33.8	40.0	45.2	50.4	52.5	54.2	54.6	53.4	48.1	32.4	13.8						
20000	26.3	33.4	39.3	44.6	46.4	48.4	48.4	47.1	38.6	22.9							
25000	17.1	25.3	33.7	37.4	39.1	39.0	39.2	35.8	26.1	7.4							
31500	4.3	12.8	19.5	25.3	27.1	28.2	26.1	21.0	10.6								
40000			1.5	7.1	8.8	9.3	6.4										
50000																	
63000																	
80000																	
OVERALL CALCULATED PNDB	63.3	68.8	73.9	77.7	78.4	80.0	79.7	78.9	74.6	67.7	60.8						
	76.3	83.2	88.1	91.8	91.7	94.9	93.7	93.2	88.6	81.2	72.5						

SIDELINE 200. FT.
(60.96 M)
VEHICLE PASS
CONFIG
LOC SCHENECTADY
DATE 1/14/73
RUN 49/11
TAPE
BAR 29.7 IN
(754. MB)
TAMB 38. DEG F
(276. DEG K)
TRT 35. DEG F
(275. DEG K)
RHOI 4.54 SLUG/FT3
(2.34 KG/M3)
VFA 843. FT/SEC
(257. M/SEC)
VFT 857. FT/SEC
(261. M/SEC)
VFS 882. FT/SEC
(269. M/SEC)
NO. OF BLADES 15
FAN TIP SPEED 502. FT/SEC

PAGE 1 FULL SCALE TEST [illegible]

PAGE FAIL - RUN/N 3 AT 10 MPH 10.2

[illegible] SURVEY PRESSURE LEVELS (5%, 8%, 6, 8, 70 PERCENT AT 0 NUM. DAY)

ANGLES FROM INLET TO CROWLES (ARE RADIANS)

		5%.	6%.	7%.	8%.	9%.	10%.	11%.	12%.	13%.	14%.	15%.	0.	0.	0.	0.	0.	PAL
	PAGE	110.2	115.9	119.5	120.7	120.9	120.4	122.1	125.0	123.5	117.0	115.4						
		59																
		63																
RADIAL 17. FT.		65																
(5. FT)		100	69.3	72.5	74.2	77.7	75.5	77.2	77.9	76.3	81.2	80.9	68.6					113.2
VEHICLE	SPDS	105	73.5	77.3	77.4	77.1	79.5	79.7	79.2	81.4	82.7	84.7	87.8					114.4
CONFIG	FA 30	100	73.2	75.5	75.2	77.1	76.9	77.5	80.2	81.6	84.7	86.9	88.6					115.2
LOC	SCHENECTADY	200	73.3	73.7	75.2	77.3	78.5	81.2	81.7	83.6	85.2	87.7	89.8					116.3
DATE	1/14/75	250	75.3	77.5	79.2	80.9	81.3	82.2	83.2	83.9	85.6	87.7	89.6					117.6
RUN	49/1A	315	77.8	79.2	80.2	81.3	81.9	82.2	83.7	84.1	85.2	87.4	88.3					117.1
TAPE		400	76.1	77.2	77.7	79.1	79.3	81.0	82.2	83.4	84.7	86.2	88.3					115.7
BAR	29.7 IN	500	74.1	75.3	76.9	77.8	79.3	81.0	82.9	83.1	83.6	85.2	85.1					115.2
	(6831.2 N/M2)	630	75.4	77.3	79.2	81.1	82.1	83.8	84.7	85.9	86.7	86.2	84.8					117.2
TAMB	37. DEG F	800	76.9	78.8	79.7	81.9	81.9	83.5	84.9	86.1	86.2	85.7	83.1					117.3
	(276. DEG K)	1000	75.6	78.0	80.4	81.4	81.8	84.3	85.6	86.6	87.2	86.4	83.3					117.5
TAT	39. DEG F	1250	78.9	80.3	81.2	83.2	84.8	86.6	87.9	88.6	88.7	86.7	83.1					119.4
	(275. DEG K)	1600	79.4	82.8	84.9	87.7	84.6	89.8	90.9	91.4	90.6	85.7	83.6					122.3
MACT	0.04 MN/M3	2000	85.6	89.3	94.2	96.5	97.1	97.3	99.6	96.8	97.4	93.5	89.8					130.5
	(0.00404 KG/M3)	2500	88.6	85.6	88.7	92.3	93.7	94.8	95.9	97.3	93.2	88.3	85.1					126.8
NFA	7754. RPM	3150	80.6	84.3	88.6	93.9	94.7	96.8	96.3	98.6	95.4	90.5	86.3					127.9
	(812. RAD/SEC)	4000	87.6	90.2	93.1	98.5	97.3	98.5	101.0	104.5	104.6	94.7	94.3					133.7
NFK	7944. RPM	5000	90.8	92.5	96.3	97.5	97.2	98.5	99.2	101.7	97.1	92.2	87.7					131.5
	(839. RAD/SEC)	6300	92.3	99.3	103.5	103.4	103.0	100.5	102.0	107.7	101.6	96.9	91.3					136.7
NFD	8023. RPM	8000	81.5	88.3	93.0	95.4	99.2	98.7	100.5	101.0	96.5	91.6	87.9					131.2
	(924. RAD/SEC)	10000	90.8	91.6	92.3	97.7	97.3	99.3	102.3	100.5	96.9	92.4	87.8					131.7
NO. OF BLADES	15	12500	86.5	86.5	92.4	95.5	96.7	97.2	100.4	100.8	96.3	91.5	87.8					131.3
FAN TIP SPEED		16000	77.2	83.7	84.7	91.1	93.6	96.1	97.5	96.1	94.6	89.1	85.3					120.7
677. FT/SEC		20000	75.9	82.5	86.7	97.5	92.2	95.5	97.7	96.8	95.3	88.9	84.4					129.1
		25000	74.5	85.8	84.3	89.1	91.5	94.1	96.4	96.1	94.7	89.0	83.4					120.7
		31500	73.9	83.1	84.0	88.1	90.0	93.0	94.9	95.9	93.1	87.2	80.6					120.0
		40000	71.2	78.5	85.4	84.7	86.3	89.9	91.4	92.2	90.0	84.6	75.0					120.8
		50000	69.5	72.3	76.6	81.7	82.4	86.2	88.2	87.5	85.2	81.5	78.5					124.0
		63000	65.2	67.9	72.3	79.2	79.1	81.8	82.4	82.2	78.3	79.0	68.3					121.7
		80000	73.5	69.7	73.1	77.9	77.6	79.5	79.5	79.7	71.4	71.8	69.1					123.3
	OVERALL MEASURED		96.4	102.2	106.1	107.8	108.4	109.2	110.7	112.7	109.6	104.6	101.9					142.9
	OVERALL CALCULATED																	

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 AT 10 HR. 10.2

WHEEL SUBSONIC PRESSURE LEVELS (59. DIA. P. 70 PERCENT RE . NUM. DAY)

ANGLES FROM INLET TO 0460ECS (ARC RADIANS)

FREQ	0. (1.02)	40. (1.43)	70. (1.30)	90. (1.57)	100. (1.71)	110. (1.90)	120. (2.06)	130. (2.24)	139. (2.42)	149. (2.60)	159. (2.78)	0. (0.)	0. (0.)	0. (180.)	0. (180.)	0. (180.)	0. (180.)
50																	
63																	
80																	
100	45.2	50.3	52.4	53.1	53.9	54.2	54.2	53.1	50.8	47.3	37.2						
125	50.4	54.7	56.1	56.4	57.0	56.8	56.4	54.5	52.2	50.9	50.2						
160	49.8	53.1	54.3	55.4	55.9	55.3	57.3	57.7	56.1	54.3	56.7						
200	49.7	51.3	53.2	54.5	56.4	58.9	58.7	59.5	59.5	59.6	57.7						
250	52.9	54.9	57.1	58.9	59.3	59.9	60.1	59.7	59.8	59.4	56.2						
315	51.3	56.6	58.1	59.4	59.7	59.8	60.8	59.8	59.2	59.0	55.7						
400	53.4	56.3	55.4	57.9	57.3	58.5	58.9	59.8	58.4	57.5	53.5						
500	50.4	52.4	54.5	56.7	57.1	58.4	58.6	58.8	57.7	56.4	51.9						
630	51.5	54.3	55.7	54.9	59.7	61.9	61.2	61.2	60.3	57.2	51.4						
800	52.8	55.7	57.1	58.5	59.4	60.7	61.3	61.3	59.6	56.4	51.3						
1000	51.5	54.8	57.7	58.9	59.2	61.3	61.9	61.7	60.4	56.9	49.2						
1250	52.6	56.7	58.3	60.6	62.1	63.7	64.3	63.5	61.7	56.9	48.5						
1600	53.9	59.3	61.9	64.2	65.9	66.5	66.8	66.9	63.7	55.6	48.5						
2000	61.0	66.1	71.3	73.3	74.1	75.3	75.3	73.9	69.9	63.3	53.2						
2500	55.7	61.6	65.3	68.9	70.4	71.2	71.4	69.5	65.4	57.4	48.9						
3150	58.4	62.1	65.3	70.4	71.2	72.7	71.5	70.4	67.2	59.1	49.3						
4000	61.9	65.4	69.3	74.7	74.8	75.2	75.7	77.8	75.8	64.5	56.8						
5000	68.3	67.6	72.3	73.4	73.7	73.9	73.7	74.7	67.9	59.5	48.8						
6300	65.5	73.5	74.4	78.6	78.1	75.1	75.6	79.8	71.3	62.8	50.3						
8000	53.3	61.1	66.9	69.5	72.2	72.1	72.9	71.6	64.5	55.3	43.8						
10000	50.8	60.1	64.6	69.3	69.8	71.1	73.8	69.2	62.5	53.8	39.1						
12500	47.9	55.6	62.5	65.9	67.3	68.7	68.6	66.4	58.5	47.7	32.2						
16000	40.4	48.9	53.1	58.3	60.3	61.6	61.5	59.3	51.2	38.9	19.2						
20000	33.4	42.6	48.2	52.6	54.1	56.2	56.3	53.8	44.5	28.3	4.8						
25000	23.9	33.5	39.4	44.4	46.5	47.7	47.2	44.3	33.4	14.7							
31500	11.5	22.1	28.5	33.9	35.0	36.1	34.3	29.2	16.3								
40000		2.5	9.8	15.3	16.8	17.5	13.9	6.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	73.2	76.7	81.1	83.6	83.2	83.2	83.5	84.3	79.7	72.3	66.7						
PNOW	84.1	90.8	95.0	96.5	96.6	96.5	96.9	97.8	94.8	86.1	78.1						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 11 YR. 84.4

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	83.5	84.5	89.7	75.7	75.0	81.3	73.2	80.7	71.2	74.9	77.8							118.6
VEHICLE R-55	125	88.5	83.5	86.4	87.9	73.5	80.5	88.4	71.2	73.7	73.4	75.0							108.3
CONFIG 730	160	84.7	80.8	81.9	80.4	87.5	80.3	89.9	71.4	72.9	75.6	76.1							107.3
LOC SCHENECTADY	200	84.2	80.2	82.7	87.7	89.5	82.8	72.2	73.9	75.4	77.9	78.3							108.2
DATE 1/9/79	250	86.4	82.7	84.9	89.9	71.3	86.5	73.2	73.4	74.2	75.4	76.1							109.4
RUN 46/1	315	86.7	84.5	85.7	71.4	72.5	85.0	73.2	74.2	74.9	75.7	76.1							110.5
TAPE	400	86.7	83.2	84.4	70.5	71.5	90.0	72.9	74.7	75.4	75.7	74.0							107.6
BAR 29.7 HG	500	85.5	81.5	83.4	69.5	71.6	82.3	73.9	74.2	74.2	75.2	73.3							106.4
(00220. N/M2)	630	87.5	83.8	85.7	72.5	74.0	87.1	76.9	77.2	77.7	77.7	74.3							111.0
TAMB 51. DEG F	800	88.0	85.3	87.4	73.5	74.8	87.3	77.2	78.7	78.7	77.6	74.3							112.1
(284. DEG K)	1000	88.0	85.5	87.7	73.5	74.6	71.0	77.9	79.9	80.9	78.9	73.0							112.0
TWET 47. DEG F	1250	74.0	91.5	83.7	81.5	84.1	71.1	88.2	88.7	88.7	85.7	88.8							120.2
(281. DEG K)	1600	72.8	91.3	83.4	81.3	83.1	71.4	88.8	88.9	88.9	83.8	77.8							119.1
HACT 7.26 GM/M3	2000	72.3	90.8	82.7	80.6	82.6	69.6	85.4	85.4	85.4	81.8	76.1							118.1
(.00726 KG/M3)	2500	88.1	99.8	89.9	86.4	90.2	78.6	90.4	92.8	92.4	88.8	83.1							128.1
NFA 5506. RPM	3150	78.5	96.3	87.8	85.4	88.4	75.6	89.8	91.1	91.2	85.2	82.8							123.7
(576. RAD/SEC)	4000	78.8	96.3	88.3	85.8	92.1	80.8	89.8	92.2	92.6	89.7	85.7							125.7
NFK 5549. RPM	5000	73.9	93.7	86.7	85.1	86.8	74.7	91.2	91.2	90.8	84.8	79.9							122.8
(581. RAD/SEC)	6300	73.8	93.2	85.4	84.7	88.9	74.7	90.2	90.7	90.8	83.1	79.8							122.5
NFB 8823. RPM	8000	78.3	98.4	83.9	83.1	84.8	72.3	87.4	89.2	88.9	82.8	77.8							120.8
(924. RAD/SEC)	10000	80.8	88.9	82.9	81.9	83.8	72.4	87.2	88.8	88.7	83.8	77.8							119.8
NO. OF BLADES 18	12500	87.8	86.8	81.8	79.2	82.8	71.3	86.5	87.7	88.9	88.8	78.4							118.2
FAN TIP SPEED	16000	84.2	83.2	87.3	74.8	78.4	68.4	83.3	85.8	84.4	78.4	72.8							113.4
401. FT/SEC	20000	82.6	81.8	86.5	73.7	76.7	67.6	81.7	84.6	83.1	77.7	71.4							110.7
	25000	81.1	81.1	85.8	71.7	74.3	65.6	79.1	81.4	80.7	74.8	69.2							108.1
	31500	80.8	80.4	84.8	69.9	73.3	64.3	77.1	80.7	79.6	73.4	67.3							106.9
	40000	80.7	79.9	84.5	68.8	72.8	63.3	74.9	78.3	78.8	71.5	65.1							105.5
	50000	81.1	82.3	88.8	84.7	89.5	86.2	72.5	76.2	75.6	70.4	68.7							114.8
	63000	82.5	82.8	88.4	82.7	89.8	71.8	78.3	73.8	89.8	78.4	87.4							127.2
	80000	85.2	84.8	82.5	83.1	79.8	72.8	72.1	72.1	78.9	71.8	78.4							122.7
OVERALL MEASURED																			
OVERALL CALCULATED		86.1	105.1	77.2	95.4	98.8	86.7	108.8	108.9	108.8	98.3	92.8							133.8
	PWL	108.1	119.2	98.4	109.7	112.8	106.8	114.8	113.7	113.9	110.4	108.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.4

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	30. (1.52)	50. (1.19)	70. (1.36)	90. (1.53)	90. (1.71)	110. (1.88)	110. (2.06)	130. (2.24)	130. (2.42)	150. (2.60)	150. (2.78)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.4	62.3	37.9	54.1	53.6	54.2	58.5	44.9	49.0	47.3	46.2						
VEHICLE R=55	125	49.3	61.2	34.8	48.3	51.8	53.4	55.7	47.3	48.2	48.0	44.8						
CONFIG #38	160	41.5	58.3	38.8	44.7	45.7	50.1	47.1	47.4	47.3	47.5	44.2						
LOC SCHENECTADY	200	48.9	57.8	36.7	49.9	47.8	49.5	49.2	49.8	49.7	49.9	48.2						
DATE 1/9/75	250	43.8	60.2	32.8	49.8	49.3	49.2	50.1	49.2	48.3	47.1	43.7						
RUN 48/1	315	45.2	61.8	33.5	49.5	50.5	49.6	50.9	49.9	49.8	47.2	43.8						
TAPE	400	43.1	60.5	32.2	48.4	48.4	49.3	49.7	50.3	49.3	47.1	41.7						
BAR 29.7 HG	500	41.8	58.8	31.1	47.3	49.3	48.7	50.6	49.7	47.9	46.4	40.2						
(80226. N/M**2)	630	43.7	60.4	33.2	50.2	52.2	49.3	53.5	52.5	51.1	48.7	40.9						
TAMB 51. DEG F	800	44.1	62.2	34.9	51.1	52.4	49.5	53.8	53.9	52.1	48.2	40.8						
(284. DEG K)	1000	43.9	62.3	35.8	51.8	52.8	49.8	54.2	55.8	54.2	49.4	39.7						
TWET 47. DEG F	1250	50.3	65.2	40.9	56.9	61.4	48.0	64.3	63.5	61.7	55.9	40.3						
(281. DEG K)	1600	48.3	67.7	40.4	58.5	60.3	49.1	62.8	61.8	59.7	52.9	42.5						
HACT 7.26 GR/M3	2000	47.8	66.8	39.5	57.6	58.8	48.1	61.1	59.8	57.9	51.8	40.5						
(.00726 KG/M3)	2500	55.2	75.9	46.5	63.2	66.9	54.9	65.9	66.8	64.7	55.4	40.9						
NFA 5300. RPM	3150	51.3	72.1	44.8	62.8	64.9	51.8	65.8	64.9	63.8	53.8	40.8						
(576. RAD/SEC)	4000	52.2	71.8	44.2	60.8	62.2	50.4	63.7	63.5	61.7	57.5	47.8						
NFA 5540. RPM	5000	47.9	68.8	42.4	61.8	62.4	50.1	65.6	64.1	61.8	52.2	41.8						
(581. RAD/SEC)	6300	46.1	67.5	40.4	59.9	64.1	49.8	63.8	62.8	60.5	50.9	38.4						
NFB 8823. RPM	8000	42.2	63.8	37.8	57.3	58.8	48.8	59.8	59.8	56.9	48.8	33.3						
(924. RAD/SEC)	10000	38.9	60.4	35.2	53.8	56.1	44.1	57.9	57.4	54.4	44.2	30.7						
NO. OF BLADES 18	12500	34.4	58.8	31.8	49.8	53.1	40.8	54.7	53.8	49.1	38.8	28.1						
FAN TIP SPEED	16000	27.4	48.4	23.7	41.8	45.1	32.2	47.4	48.2	41.8	27.4	8.7						
481. FT/SEC	20000	28.1	41.8	18.8	39.8	38.8	26.3	40.3	39.6	32.3	17.8							
	25000	18.8	33.4	18.4	27.8	29.3	18.2	38.8	27.8	19.4	8.2							
	31500		22.3	8.8	18.3	18.3	8.4	18.8	18.8	2.8								
	40000		8.8			8.8												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		66.8	80.7	52.8	71.4	74.8	61.8	78.8	73.8	71.2	64.8	57.8						
PNLS		74.8	95.1	66.4	88.8	88.2	76.2	88.8	87.2	88.3	78.8	69.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. BAIL - MONIN 3 DAY 11 MO. 14.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	PWL
50																		
63																		
RADIAL 17. FT. 64																		
(9. M) 100	71.0	80.0	80.2	74.1	78.0	84.3	73.4	71.9	73.9	70.7	66.8							113.9
VEHICLE N-99 125	71.0	84.0	80.2	71.1	74.0	84.0	71.9	73.9	75.9	77.9	80.0							111.2
CONFIG 150	68.6	84.6	80.2	70.1	78.0	84.5	73.2	74.9	76.9	79.7	80.1							110.0
LOC SCHENECTADY 200	68.5	83.0	80.2	70.0	73.8	84.9	75.2	77.2	78.4	81.4	84.1							111.3
DATE 1/9/75 250	70.5	86.2	80.7	73.9	74.3	84.8	76.2	76.7	77.9	79.7	79.0							112.6
RUN 46/2 315	72.8	88.2	80.2	75.1	76.8	84.8	76.7	77.9	78.4	79.7	79.0							114.2
TAPE 400	70.8	86.2	80.2	73.2	73.0	84.5	75.7	77.2	78.2	78.7	78.6							112.6
BAR 28.7 HG 500	69.3	84.3	80.2	72.9	74.3	84.0	76.7	77.2	77.4	78.2	77.1							111.3
(96220. N/M2) 630	71.1	87.8	80.7	79.7	77.1	84.3	78.4	80.2	80.2	80.5	77.8							114.8
TAMB 50. DEG F 800	72.1	87.5	82.7	78.7	77.3	84.6	78.4	81.4	81.2	79.7	77.8							114.8
(283. DEG K) 1000	71.8	86.6	81.4	78.7	77.1	84.3	80.4	81.9	82.9	80.2	78.1							115.0
TWET 47. DEG F 1250	73.4	90.3	82.9	79.5	81.4	84.1	84.7	85.4	85.9	81.2	77.8							117.8
(281. DEG K) 1600	81.4	98.8	78.2	89.8	88.8	78.6	92.1	93.9	92.7	89.8	81.1							120.1
HACT 7.56 GM/M3 2000	78.1	94.1	88.4	84.8	86.6	78.6	88.9	88.9	87.9	83.8	78.8							121.8
(.00756 KG/M3) 2500	75.4	95.3	87.8	85.6	87.4	78.9	90.4	90.4	90.9	84.5	80.3							123.8
NFA 6200. RPM 3150	78.4	97.8	71.8	90.3	92.7	84.3	98.3	94.3	96.4	89.7	86.8							127.7
(650. RAD/SEC) 4000	77.5	96.5	89.8	90.8	91.1	78.8	93.7	93.5	92.1	86.9	82.7							125.4
NFA 6344. RPM 5000	80.7	98.2	73.8	90.8	92.8	84.8	99.2	97.2	94.8	88.4	84.8							128.8
(664. RAD/SEC) 6300	78.8	95.7	78.4	91.4	92.2	78.2	94.2	94.5	93.5	87.3	82.7							125.9
NFB 8023. RPM 8000	74.9	94.9	88.1	88.1	89.3	78.3	91.7	93.7	92.1	86.2	81.8							124.3
(824. RAD/SEC) 10000	75.8	94.2	88.9	88.8	88.4	78.8	92.9	94.1	92.4	87.2	82.9							124.8
NO. OF BLADES 15 12500	72.5	90.6	88.4	84.3	87.2	78.7	93.7	91.9	89.8	84.3	78.4							122.1
FAN TIP SPEED 16000	69.8	87.2	83.7	80.7	83.9	78.1	87.5	88.9	87.4	81.8	76.3							119.4
840. FT/SEC 20000	67.6	85.5	84.1	78.8	81.9	78.5	86.4	89.5	87.8	81.7	74.8							118.2
25000	65.9	83.2	84.8	77.3	79.5	78.8	83.5	87.1	84.8	79.2	72.4							117.8
31500	66.1	82.7	83.7	75.8	78.4	78.2	82.8	86.8	83.2	77.8	70.8							117.5
40000	64.8	81.2	84.1	72.9	75.4	78.4	79.8	84.2	80.1	75.1	68.7							116.4
50000	67.7	82.1	80.6	71.8	72.1	78.8	76.8	83.8	79.8	72.9	66.7							117.8
63000	69.8	82.8	80.6	70.4	69.9	78.8	72.5	80.8	78.9	71.4	67.4							118.7
80000	73.9	86.5	78.2	71.2	70.4	78.9	72.8	79.5	78.8	72.8	70.3							124.8
OVERALL MEASURED																		
OVERALL CALCULATED	80.1	100.8	81.7	100.8	100.8	88.1	104.8	104.8	103.4	98.3	94.8							130.8
PNDB	102.1	120.1	93.8	114.3	113.8	102.5	110.1	112.8	110.9	111.7	100.1							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 NO. 14.9

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.0	69.0	38.4	52.6	54.4	3[illegible].2	50.7	48.1	48.6	51.0	49.4						
VEHICLE A-50	125	47.9	62.4	38.3	49.5	53.1	3[illegible].9	49.2	50.1	50.5	50.1	49.8						
CONFIG [illegible]	160	45.6	61.6	38.3	48.4	49.6	3[illegible].3	50.3	50.9	51.3	51.7	48.2						
LOC SCHENECTADY	200	49.2	68.5	39.2	48.8	51.1	3[illegible].2	52.2	53.1	52.7	53.3	50.8						
DATE 1/9/75	250	47.1	63.7	38.6	52.0	52.3	3[illegible].7	53.1	52.5	52.1	51.4	47.5						
RUN 46/2	315	49.3	65.6	38.9	53.2	54.0	4[illegible].3	53.5	53.0	52.5	51.2	47.2						
TAPE	400	47.2	63.5	37.9	51.1	51.7	4[illegible].8	52.4	52.8	52.1	50.1	45.7						
BAR 29.7 MS	500	45.6	61.4	37.0	50.0	52.1	4[illegible].4	53.3	52.7	51.2	49.4	43.9						
(98220. N/M2)	630	47.3	64.0	38.2	53.4	54.7	4[illegible].0	54.8	55.5	53.8	51.4	44.4						
TAMB 90. DEG F	800	48.1	64.4	40.1	54.3	54.9	4[illegible].7	55.8	56.6	54.9	52.6	43.8						
(305. DEG K)	1000	47.8	64.6	38.7	54.2	54.9	4[illegible].3	56.7	57.8	56.2	54.7	41.9						
TWET 87. DEG F	1250	49.1	64.9	40.1	54.9	56.6	4[illegible].6	60.0	60.3	59.8	57.4	43.3						
(304. DEG K)	1600	54.9	73.2	47.2	60.2	67.6	5[illegible].3	68.1	68.0	65.5	58.9	40.6						
MACT 7.36 GM/M3	2000	51.4	70.3	43.2	61.8	63.3	4[illegible].1	64.0	63.3	60.4	52.5	43.2						
(.00750 LB/M3)	2500	50.9	71.4	44.3	62.4	64.2	5[illegible].2	69.0	64.0	63.1	53.7	44.2						
NFA 6200. RPM	3150	53.1	73.0	48.9	64.9	69.1	5[illegible].4	73.5	68.2	66.2	58.3	48.1						
(000. DAB/SEC)	4000	51.0	71.8	45.7	66.2	67.2	5[illegible].4	66.5	66.0	63.2	54.7	44.8						
NFB 6344. RPM	5000	54.7	73.3	48.6	71.9	68.4	5[illegible].3	73.8	70.1	64.8	56.7	48.7						
(004. DAB/SEC)	6300	49.9	70.8	45.3	66.8	67.3	5[illegible].0	67.6	66.5	63.2	53.2	41.4						
NFB 6823. RPM	8000	46.7	68.8	42.8	62.2	63.4	4[illegible].0	64.1	64.3	60.1	49.9	38.8						
(924. DAB/SEC)	10000	45.9	65.7	41.2	58.5	60.9	4[illegible].5	63.0	62.8	58.1	47.9	32.2						
NO. OF BLADES 15	12500	48.8	59.7	36.6	54.8	57.5	4[illegible].2	58.9	57.8	51.9	40.6	23.8						
FAN TIP SPEED	16000	32.1	52.4	30.1	47.5	50.3	4[illegible].0	51.8	50.1	44.8	30.0	10.2						
900. FT/SEC	20000	28.1	46.5	28.7	40.9	43.8	3[illegible].2	45.8	44.5	38.2	21.8							
	25000	15.3	36.4	18.8	32.6	34.8	2[illegible].6	34.6	33.3	23.3	4.8							
	31500	2.0	24.7	8.1	20.9	23.4	1[illegible].3	21.9	20.1	6.4								
	40000		7.2		3.5	5.9		2.1										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.0	82.3	66.3	78.2	78.4	6[illegible].0	79.1	78.7	74.8	66.9	59.2						
PNLdB		78.8	98.8	89.7	98.8	98.1	7[illegible].8	93.2	98.3	88.5	80.2	71.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PR. 14.0

MODEL SOUND PRESSURE LEVELS (DB, REF. P= 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.20)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (180.)	0. (180.)	0. (180.)	0. (180.)	0. (180.)	0. (180.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	66.3	67.3	58.4	74.9	73.5	6[illegible].8	73.2	73.4	70.7	61.4	65.1							113.9
VEHICLE A-88	125	75.5	84.3	64.7	78.4	78.3	6[illegible].3	75.7	77.7	79.2	81.4	84.3							119.2
CONFIG #37	160	72.6	67.6	58.2	74.1	74.8	6[illegible].8	76.7	77.9	68.7	83.2	84.0							116.9
LOC SCHENECTADY	200	71.3	66.6	57.4	73.4	73.8	6[illegible].8	76.4	86.4	81.4	83.2	80.1							114.5
DATE 1/9/75	250	74.3	69.5	61.2	77.4	77.6	6[illegible].3	79.9	80.4	81.9	83.9	84.0							118.2
RUN 46/3	315	75.5	91.6	62.2	77.9	78.6	6[illegible].5	88.2	80.9	82.2	83.9	84.1							117.2
TAPE	400	73.6	68.7	64.2	76.2	77.6	6[illegible].5	79.4	80.2	81.2	82.7	82.3							115.4
BAR 29.7 MB	500	72.6	67.3	58.7	75.4	77.1	6[illegible].8	79.7	80.2	81.6	82.2	81.3							114.5
(98220. N/M2)	630	74.1	90.6	61.4	78.2	79.6	6[illegible].6	82.2	82.4	83.7	83.6	81.1							118.6
TAMB 51. DEG F	800	75.4	90.5	62.7	79.7	80.3	6[illegible].1	82.7	83.9	83.7	82.9	80.6							117.4
(284. DEG K)	1000	74.6	90.5	62.9	78.9	79.6	6[illegible].6	82.9	84.4	84.9	82.2	79.6							117.5
TDET 47. DEG F	1250	75.4	92.3	64.2	81.6	83.1	6[illegible].6	85.9	86.7	86.7	82.2	80.1							119.4
(281. DEG K)	1600	81.1	90.3	78.7	91.3	92.9	6[illegible].4	94.4	93.4	93.2	86.7	83.6							120.9
MACT 7.26 GM/M3	2000	81.9	99.6	71.9	91.6	93.6	1[illegible].4	96.4	94.9	93.2	87.7	84.3							127.7
(.00720 LB/M3)	2500	78.4	98.1	78.7	89.1	91.2	6[illegible].9	93.1	92.4	91.4	86.6	82.3							125.6
NFA 7881. RPM	3150	79.9	102.3	73.4	91.6	94.7	6[illegible].1	97.6	96.8	95.2	93.2	87.6							130.5
(741. RAD/SEC)	4000	81.3	103.5	74.6	93.6	95.6	1[illegible].5	99.2	100.2	100.1	94.2	87.7							131.7
NFA 7130. RPM	5000	80.8	107.2	82.2	97.3	95.3	6[illegible].2	100.2	103.7	97.5	93.6	90.4							134.6
(747. RAD/SEC)	6300	84.6	101.5	75.2	93.1	93.9	1[illegible].2	96.7	99.7	94.6	89.6	85.2							129.6
NFB 8823. RPM	8000	78.4	99.4	72.7	91.6	93.6	6[illegible].6	96.7	96.9	93.6	88.5	84.6							128.3
(924. RAD/SEC)	10000	77.9	98.4	72.9	92.6	93.9	6[illegible].4	96.2	96.6	94.2	88.6	84.6							128.1
NO. OF BLADES 18	12500	76.1	96.1	69.5	88.6	91.3	6[illegible].8	96.5	96.2	91.9	86.9	82.2							126.6
FAN TIP SPEED	16000	73.6	92.2	66.3	84.5	87.7	6[illegible].4	92.6	93.2	90.2	84.7	79.6							123.8
818. FT/SEC	20000	71.5	90.6	64.7	84.1	86.5	6[illegible].8	91.2	93.6	89.9	83.8	78.4							123.7
	25000	69.3	88.6	63.1	81.6	84.3	6[illegible].6	90.9	90.7	88.2	83.3	78.8							122.1
	31500	66.4	87.9	61.6	80.6	82.8	6[illegible].8	87.3	88.9	86.3	82.1	77.1							121.0
	40000	66.5	84.9	60.8	77.8	79.8	6[illegible].8	84.7	85.6	83.3	79.2	69.6							119.6
	50000	66.2	83.3	59.6	74.6	76.6	6[illegible].2	81.2	81.2	79.3	77.1	67.7							118.6
	63000	66.6	83.3	66.4	71.6	72.2	6[illegible].5	75.6	75.6	73.6	73.4	64.2							110.6
	80000	74.6	87.1	62.5	71.6	71.5	6[illegible].5	73.4	73.6	71.6	73.1	70.4							120.1
OVERALL MEASURED																			
OVERALL CALCULATED		92.6	112.2	86.7	103.6	104.3	9[illegible].1	107.7	109.6	106.5	101.6	96.3							140.7
PWL		107.1	120.2	100.6	117.6	117.6	10[illegible].2	120.1	120.3	120.2	115.6	111.6							

MODEL SOUND PRESSURE LEVELS (90. LEG. F. 78 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	160.	170.	180.	190.	200.	210.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	45.2	66.0	36.7	51.3	51.9	3[illegible].0	50.3	49.6	51.3	53.0	53.7						
VEHICLE A-88	125	52.4	71.0	42.6	56.7	57.0	4[illegible].2	52.9	53.0	53.7	53.0	52.7						
CONFIG 6.5V	160	48.0	65.3	38.3	52.4	53.2	3[illegible].0	53.0	53.9	53.1	53.2	52.7						
LOC SCHENECTADY	200	48.2	63.3	38.4	51.6	53.9	4[illegible].3	55.5	56.3	55.7	57.1	54.0						
DATE 1/0/75	250	56.9	66.9	39.1	53.5	55.6	4[illegible].9	56.9	56.2	56.1	55.0	52.0						
RUN 48/3	315	52.0	68.3	46.6	55.0	56.7	4[illegible].1	57.8	56.0	56.2	55.5	51.5						
TAPE	400	56.2	68.0	37.9	54.1	54.9	4[illegible].8	56.2	55.0	56.1	54.1	49.0						
BAR 29.7 MG	500	49.1	64.4	36.3	53.3	54.0	4[illegible].2	56.3	55.7	55.2	53.4	46.2						
(98220. N/M2)	630	54.3	67.0	39.4	55.0	57.5	4[illegible].8	58.7	57.6	57.3	55.9	47.6						
TAMB 91. DEG F	800	51.4	67.4	46.1	57.3	57.9	4[illegible].2	59.1	59.1	57.1	53.7	48.8						
(284. DEG K)	1000	54.5	67.3	44.2	56.4	57.2	4[illegible].8	59.2	59.8	58.2	52.7	49.7						
TWET 67. DEG F	1250	51.1	66.9	41.4	56.6	56.4	4[illegible].5	62.6	61.5	59.7	52.4	49.5						
(291. DEG K)	1600	56.7	74.7	47.7	60.5	78.8	5[illegible].1	78.4	64.1	60.8	56.0	48.8						
HACT 7.20 GM/M3	2000	57.2	75.8	48.7	60.8	79.8	5[illegible].8	79.0	72.1	69.3	58.7	49.6						
(.00720 KG/M3)	2500	53.5	74.1	47.3	65.9	67.9	5[illegible].2	66.6	66.6	63.7	58.2	48.2						
NFA 7081. RPM	3150	54.6	78.1	49.7	66.2	71.2	5[illegible].1	73.8	72.7	71.8	61.6	50.1						
(741. RAD/SEC)	4000	55.6	78.6	56.7	69.2	71.7	5[illegible].1	74.8	73.5	71.2	62.8	49.8						
NFK 7130. RPM	5000	62.6	82.1	57.9	70.2	71.2	6[illegible].6	76.6	76.6	6[illegible].9	61.9	51.9						
(747. RAD/SEC)	6300	53.9	75.8	56.1	69.4	69.1	5[illegible].8	78.3	78.8	64.9	59.7	46.2						
NFB 8023. RPM	8000	50.2	72.6	46.6	65.7	67.6	5[illegible].3	69.1	67.8	61.6	52.2	39.8						
(824. RAD/SEC)	10000	46.6	69.9	45.2	66.6	64.4	5[illegible].3	66.9	65.4	59.9	49.6	38.2						
NO. OF BLADES 15	12500	43.3	66.2	39.5	59.1	61.6	5[illegible].3	64.7	62.1	54.1	43.1	36.9						
FAN TIP SPEED	16000	36.2	57.4	32.7	51.3	54.3	4[illegible].2	58.6	54.4	46.6	33.6	13.8						
818. FT/SEC	20000	29.8	50.6	29.2	46.2	48.3	4[illegible].6	49.6	48.8	39.1	24.3							
	25000	18.9	41.3	17.7	37.8	39.3	3[illegible].2	39.7	36.8	28.6	8.8							
	31500	0.0	29.6	0.2	26.8	27.8	2[illegible].8	26.8	22.2	9.8								
	40000		10.8		0.6	9.9	[illegible].3	7.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.1	87.3	81.2	79.3	79.7	8[illegible].8	81.8	82.1	77.3	69.8	63.2						
PWLO		81.8	101.0	78.8	93.7	93.1	8[illegible].7	96.8	96.8	91.8	83.8	76.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 YR. 80.0

MODEL SCMB PRESSURE LEVELS 100. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. 180.	0. 180.	0. 180.	0. 180.	0. 180.	0. 180.	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	69.0	66.5	72.9	73.9	74.5	69.0	75.9	76.2	80.4	80.2	80.6							114.0
VEHICLE R-55 125	75.8	91.6	77.9	77.9	79.3	69.0	78.4	80.7	82.4	84.4	87.0							118.0
COMPLE SF3/ 160	74.8	90.3	75.4	76.4	76.5	69.3	79.7	81.2	84.4	86.4	87.0							117.4
LOC SCHENECTADY 200	74.3	89.8	74.4	76.4	76.3	69.5	81.4	83.4	84.9	87.7	88.8							117.5
DATE 1/9/79 250	77.8	92.2	78.7	79.8	80.5	69.8	83.4	83.8	85.7	87.9	88.8							119.4
RUN 48/4 315	78.8	94.8	78.8	80.9	80.8	69.5	82.9	83.9	85.2	86.5	87.3							120.2
TAPE 400	77.8	92.2	77.4	78.9	79.5	69.3	82.2	83.4	84.7	85.7	86.3							118.8
BAR 29.7 MB 500	75.8	90.3	75.8	78.2	78.3	69.8	82.2	83.2	83.9	85.2	85.1							117.5
(98220. N/M2) 630	78.9	92.3	78.2	81.2	82.1	69.8	84.4	84.9	85.7	86.8	86.8							119.3
TAMB 58. DEG F 630	77.8	93.8	78.7	81.2	82.8	69.1	85.2	86.7	86.7	85.4	83.8							120.8
(293. DEG K) 1000	78.9	93.5	79.9	81.4	82.1	69.1	85.4	86.7	86.2	84.4	82.6							120.2
TWET 46. DEG F 1250	77.6	94.3	84.7	83.8	84.4	71.3	87.4	88.4	87.8	84.9	82.8							121.3
(281. DEG K) 1600	79.6	97.8	83.9	86.8	86.4	71.8	88.4	88.7	89.9	85.7	82.3							124.1
RHOT 0.00 GM/M3 2000	85.4	103.1	91.7	95.3	96.9	69.4	99.4	98.1	96.4	92.8	88.1							131.2
(.000000 LB/M3) 2500	81.8	101.3	88.7	91.8	93.9	70.8	96.1	95.1	92.7	88.2	84.1							128.8
RPA 7883. RPM 3150	81.4	101.1	88.8	92.8	94.7	69.3	96.1	95.8	94.2	89.2	85.8							128.8
(823. RAD/SEC) 4000	86.8	105.5	92.5	96.5	100.4	69.8	102.8	104.7	101.8	96.4	93.2							134.7
RPA 7932. RPM 5000	83.7	103.8	92.2	96.3	98.8	69.8	99.9	100.8	98.5	92.1	87.1							132.9
(830. RAD/SEC) 6300	85.5	110.5	96.4	100.8	100.9	69.8	104.9	107.8	100.8	97.1	93.2							139.8
RPB 8023. RPM 8000	83.1	103.9	91.7	96.8	98.8	69.4	99.9	99.7	98.9	91.8	88.3							131.9
(924. RAD/SEC) 10000	81.4	101.7	90.7	94.1	96.4	69.9	100.2	99.8	96.5	91.8	88.8							131.3
NO. OF BLADES 15 12500	81.1	101.8	89.2	93.6	96.8	69.3	100.8	100.5	98.2	91.4	88.2							131.8
FAN TIP SPEED 16000	77.1	98.8	86.1	90.3	93.2	69.8	96.6	97.8	92.7	88.9	83.4							128.3
886. FT/SEC 20000	78.8	95.8	84.7	87.9	91.8	69.8	96.8	96.8	93.1	88.8	81.8							127.8
25000	73.8	93.8	82.1	86.7	88.8	69.4	94.2	95.8	92.8	87.8	80.8							126.9
31500	72.8	92.4	80.8	85.7	87.3	69.3	91.9	93.2	90.1	86.4	77.4							126.8
40000	70.8	89.4	77.3	81.8	83.8	69.1	89.8	89.8	86.8	83.8	72.8							123.1
50000	70.8	88.3	73.8	78.2	80.8	69.8	86.8	85.8	82.8	80.7	70.8							121.8
63000	70.3	84.2	68.3	73.8	74.9	69.4	88.8	79.8	78.8	78.3	68.1							121.7
80000	74.1	87.7	68.4	72.4	72.8	70.8	75.2	76.8	73.8	74.7	71.8							120.8
OVERALL MEASURED																		
OVERALL CALCULATED	94.8	118.1	102.1	106.8	110.8	94.8	118.8	118.7	107.8	104.2	101.2							144.8
PWL	100.8	120.8	110.1	112.3	123.2	114.8	123.1	120.8	121.8	117.8	114.6							

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	30. (1.02)	60. (1.10)	70. (1.30)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.00)	120. (2.24)	130. (2.43)	140. (2.60)	150. (2.70)	0.	0.	0.	0.	0.	0.
50																	
63																	
SIDELINE 200. FT. 60																	
(60.96 M) 100	46.8	64.3	81.2	53.3	52.9	3[illegible].7	53.2	53.4	53.1	57.8	57.2						
VEHICLE B-69 125	51.8	68.4	56.1	56.2	57.6	4[illegible].0	55.7	56.8	57.8	58.6	58.2						
COMPLE [illegible] 160	56.8	67.8	53.8	54.7	54.7	4[illegible].1	56.8	57.2	58.8	58.8	58.8						
LOC SCHNECTADY 200	51.8	68.8	52.4	54.6	56.4	4[illegible].2	56.8	58.3	58.2	58.6	58.7						
DATE 1/8/73 250	53.6	69.7	56.6	57.7	58.6	4[illegible].4	58.6	59.7	58.6	58.8	58.8						
RUN 48/4 315	56.1	71.3	58.6	56.8	58.7	4[illegible].1	59.8	58.6	58.2	58.8	58.7						
TAPE 400	53.8	69.8	56.2	56.6	57.4	4[illegible].0	58.8	57.8	58.6	57.1	53.5						
BAR 29.7 MS 500	51.8	67.4	53.6	56.8	57.1	4[illegible].6	56.8	56.7	57.7	58.4	51.8						
(9C220. N/M2) 630	53.8	68.2	55.7	56.8	58.7	4[illegible].1	61.8	66.3	66.4	56.8	51.1						
TAMB 58. DEG F 800	53.8	68.8	57.1	56.8	60.1	4[illegible].2	61.8	61.8	66.1	58.2	58.8						
(283. DEG C) 1000	52.7	78.3	57.2	58.8	58.5	4[illegible].1	61.7	61.7	58.4	54.8	48.4						
TAET 60. DEG F 1250	53.4	78.8	57.8	66.4	61.6	4[illegible].2	63.3	63.3	61.8	54.7	48.8						
(291. DEG C) 1600	56.2	73.5	66.8	64.8	66.5	5[illegible].3	66.3	65.3	62.7	55.6	47.3						
MACT 0.06 LM/M3 2000	66.7	79.3	66.5	72.3	73.6	5[illegible].9	75.1	72.8	66.8	62.8	52.3						
(.00006 KG/M3) 2500	66.7	77.4	65.3	68.7	70.7	5[illegible].9	71.6	69.3	64.9	57.4	47.8						
MPA 7963. RPM 3150	56.1	76.6	63.8	68.2	71.2	5[illegible].6	71.3	68.7	66.8	57.8	48.1						
(833. RAD/SEC) 4000	66.3	66.8	66.5	72.7	76.4	5[illegible].7	76.7	76.8	73.8	66.2	55.8						
MPR 7932. RPM 5000	57.7	66.8	67.8	74.2	76.7	6[illegible].3	74.6	73.8	66.3	58.4	48.2						
(830. RAD/SEC) 6300	56.7	66.8	71.4	81.8	82.1	6[illegible].6	78.8	81.8	68.7	62.8	51.8						
MPB 8023. RPM 8000	55.8	77.8	66.5	66.7	78.6	5[illegible].8	72.3	78.3	63.8	55.2	42.8						
(836. RAD/SEC) 10000	54.3	73.2	63.6	66.8	66.9	5[illegible].8	78.9	66.8	62.1	52.4	37.7						
NO. OF BLADES 16 12500	48.5	78.7	58.3	64.1	67.1	5[illegible].9	66.2	66.3	57.4	47.8	28.4						
FAN TIP SPEED 14000	48.2	63.2	52.5	57.1	58.9	4[illegible].7	66.8	56.7	48.3	37.4	17.2						
800. FT/SEC 20000	33.5	58.9	46.3	56.8	52.9	4[illegible].6	54.4	51.8	42.3	27.3	1.8						
25000	23.2	46.8	36.7	43.8	43.9	4[illegible].8	46.8	44.8	36.7	18.2							
31500	18.1	34.5	28.8	31.1	32.3	3[illegible].6	31.4	28.8	13.2								
40000		19.4	8.7	18.8	13.7	1[illegible].7	11.8	3.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.8	88.8	77.2	84.1	88.1	7[illegible].7	84.2	84.8	78.1	72.8	88.2						
PNDB	82.8	103.8	88.7	88.8	88.8	8[illegible].6	87.8	88.3	83.8	88.8	77.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 11 HR. 14.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	69.8	87.0	72.9	74.1	74.5	6[illegible].8	79.7	78.2	79.7	84.9	88.1							114.8
VEHICLE R-55	125	75.5	92.0	78.2	78.6	79.3	6[illegible].8	78.2	80.7	82.7	85.2	87.8							118.3
CONFIG R3/	160	75.8	90.5	74.9	78.8	77.8	6[illegible].8	79.4	81.2	84.2	86.9	88.3							117.8
LOC SCHENECTADY	200	74.8	88.7	74.4	78.4	76.5	6[illegible].3	81.2	83.4	84.9	86.2	89.1							117.5
DATE 1/9/75	250	77.8	92.2	78.7	80.4	81.8	6[illegible].5	83.7	84.4	85.9	87.9	88.4							119.5
RUN 46/5	315	79.8	94.8	78.9	80.6	81.3	6[illegible].8	82.7	84.2	85.2	87.2	87.8							120.3
TAPE	400	77.8	92.8	77.7	78.4	79.8	6[illegible].3	82.2	83.4	84.7	86.2	86.1							118.7
BAR 29.7 MG	500	75.8	90.5	75.7	79.2	79.3	6[illegible].5	82.4	82.8	84.2	84.9	85.1							117.6
(98228. N/M2)	630	76.8	92.8	78.4	80.9	82.1	6[illegible].8	84.7	84.9	86.2	86.8	85.1							119.3
TAMB 50. DEG F	800	77.6	93.3	79.4	82.2	83.6	6[illegible].1	84.9	86.4	86.2	85.4	84.4							120.1
(283. DEG K)	1000	77.4	93.2	79.9	81.4	82.3	6[illegible].1	85.2	86.4	86.9	84.2	82.8							120.1
THET 46. DEG F	1250	77.9	94.3	81.7	82.8	84.6	7[illegible].6	87.7	88.2	88.2	84.8	83.1							121.4
(281. DEG K)	1600	79.4	97.3	84.2	87.0	88.9	7[illegible].6	90.6	90.7	90.2	85.8	82.1							124.3
MACT 0.96 GM/M3	2000	85.4	103.3	91.7	95.0	96.9	8[illegible].4	99.6	98.6	96.4	92.2	88.8							131.4
(.00096 KG/M3)	2500	82.1	101.3	88.7	92.3	93.7	7[illegible].4	96.1	95.4	92.7	88.8	84.8							128.8
NFA 7658. RPM	3150	81.4	101.3	88.6	92.8	94.9	8[illegible].8	95.8	96.1	94.7	89.8	85.8							129.0
(823. RAD/SEC)	4000	85.8	105.5	93.8	96.5	100.1	8[illegible].8	101.5	104.2	102.1	96.4	94.8							134.9
NFR 7927. RPM	5000	83.7	104.5	92.2	96.8	99.1	8[illegible].2	100.2	100.9	98.8	92.1	88.8							132.8
(830. RAD/SEC)	6300	86.8	110.3	96.4	100.9	107.2	9[illegible].7	104.9	109.7	100.8	97.1	93.8							135.8
NFB 8823. RPM	8000	82.9	104.2	91.9	94.1	96.4	8[illegible].9	100.4	100.7	98.4	91.8	88.8							132.3
(924. RAD/SEC)	10000	81.1	102.2	90.9	94.4	96.1	8[illegible].2	99.8	99.7	98.7	91.8	88.7							131.4
NO. OF BLADES 15	12500	81.8	101.9	89.5	93.4	96.8	8[illegible].3	100.8	100.7	95.2	91.4	85.7							131.5
FAN TIP SPEED	16000	77.8	98.8	86.3	90.3	93.5	7[illegible].5	96.8	97.8	93.2	88.7	83.2							128.7
888. FT/SEC	20000	75.8	96.1	84.7	88.4	91.9	7[illegible].6	95.5	96.9	92.6	88.8	81.9							127.7
	25000	74.8	94.1	82.1	86.4	89.1	7[illegible].9	94.2	95.2	94.3	87.8	88.7							128.7
	31500	72.5	92.4	80.8	85.2	87.3	7[illegible].1	91.9	93.5	90.1	86.9	77.4							125.8
	40000	78.8	89.4	77.1	82.1	84.1	7[illegible].9	89.8	90.1	88.8	84.3	73.4							124.1
	50000	78.8	88.8	74.1	78.2	80.8	8[illegible].8	88.8	85.2	82.9	81.8	78.5							123.1
	63000	78.5	84.2	88.8	73.8	74.8	8[illegible].9	88.8	79.3	78.8	78.8	88.3							123.8
	80000	74.1	88.7	87.8	71.9	72.3	8[illegible].8	75.8	75.8	72.8	74.2	71.8							120.9
OVERALL MEASURED																			
OVERALL CALCULATED		84.7	119.8	102.3	106.9	110.8	9[illegible].8	110.8	113.1	108.2	104.3	101.8							144.2
	PNDB	108.8	128.4	118.2	122.4	123.3	11[illegible].4	123.8	126.8	121.8	117.4	115.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 YR. 14.8

MODEL SOUND PRESSURE LEVELS (50. LBS. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.00)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	46.5	64.6	51.2	52.8	52.9	39.[illegible]	53.0	52.4	54.3	57.3	56.7						
VEHICLE R-55 125	52.4	69.7	56.3	57.9	57.6	41.[illegible]	55.4	56.0	57.2	57.4	56.8						
CONFIG 7 31 160	51.8	66.1	53.0	54.9	55.2	40.[illegible]	56.6	57.2	56.0	55.8	56.5						
LOC SCHENECTADY 200	50.7	66.3	52.4	54.6	56.6	44.[illegible]	58.2	59.3	57.2	60.1	57.8						
DATE 1/9/75 250	53.6	69.7	56.6	58.5	59.1	45.[illegible]	60.0	60.2	60.1	59.9	56.8						
RUN 46/5 315	55.5	71.3	58.8	58.7	59.2	45.[illegible]	59.5	59.9	59.2	58.7	54.7						
TAPE 400	53.9	69.2	55.4	56.3	57.7	43.[illegible]	58.9	59.8	58.6	57.8	53.2						
BAR 29.7 HG 500	51.9	67.6	53.3	56.0	57.1	43.[illegible]	59.1	58.4	57.9	56.1	51.9						
(98220. N/M2) 630	52.6	68.8	56.0	56.7	59.7	46.[illegible]	61.2	60.3	59.6	58.9	51.0						
TAMB 50. DEG F 800	53.6	70.2	56.9	59.6	60.1	46.[illegible]	61.3	61.6	59.6	58.2	50.5						
(283. DEG K) 1000	53.2	70.8	57.2	58.9	59.7	46.[illegible]	61.4	61.5	60.2	54.7	48.4						
THET 46. DEG F 1250	53.6	70.9	58.9	59.9	61.9	48.[illegible]	63.8	63.0	61.2	54.7	48.8						
(281. DEG K) 1600	54.9	73.7	61.2	64.2	66.8	51.[illegible]	66.6	65.3	63.9	55.4	47.8						
HACT 0.96 GM/M3 2000	60.7	79.6	68.8	72.1	73.8	59.[illegible]	75.3	73.1	68.9	61.8	53.8						
(.000096 KG/M3) 2500	57.2	77.4	65.3	69.2	70.4	56.[illegible]	71.6	69.6	64.8	57.2	48.4						
NFA 7856. RPM 3150	56.1	77.1	65.8	69.4	71.4	58.[illegible]	70.8	69.9	66.8	58.1	48.8						
(823. RAD/SEC) 4000	60.1	80.8	69.8	72.7	76.2	59.[illegible]	76.2	77.8	73.2	64.2	55.8						
NFK 7927. RPM 5000	57.7	79.5	67.9	74.0	76.9	61.[illegible]	76.6	73.9	66.8	59.4	48.8						
(830. RAD/SEC) 6300	59.2	84.8	71.4	82.1	82.3	69.[illegible]	78.8	81.8	78.5	62.9	52.8						
NFB 8023. RPM 8000	54.8	77.3	65.8	68.2	78.4	58.[illegible]	72.8	71.3	64.4	56.2	42.3						
(924. RAD/SEC) 10000	51.2	73.7	63.3	67.8	68.7	56.[illegible]	78.8	68.4	62.4	52.4	38.8						
NO. OF BLADES 15 12500	49.8	71.8	58.8	63.8	64.3	52.[illegible]	68.2	66.8	57.4	47.8	38.3						
FAN TIP SPEED 16000	48.7	63.2	52.7	57.1	58.1	45.[illegible]	68.9	58.9	49.8	37.8	17.8						
888. FT/SEC 20000	33.8	56.1	46.3	56.8	53.4	38.[illegible]	54.1	51.9	41.8	28.1	1.8						
25000	23.4	46.8	36.7	41.7	44.1	31.[illegible]	45.8	41.4	38.9	13.4							
31500	18.1	34.4	28.8	38.6	32.3	21.[illegible]	31.4	28.7	13.3								
40000		19.4	8.4	12.7	14.2	7.[illegible]	11.8	4.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.9	89.8	77.4	84.2	85.2	71.[illegible]	84.1	84.8	78.4	22.1	60.3						
PNDB	82.4	103.4	96.8	98.2	99.8	85.[illegible]	97.4	98.7	93.2	89.8	77.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	65.7	66.5	70.9	77.7	77.5	6[illegible].5	74.9	69.7	71.9	75.9	77.6							112.7
VEHICLE R-55	125	69.6	63.3	71.2	66.2	74.0	5[illegible].5	66.6	71.7	73.4	73.9	75.6							109.4
CONFIG #31	160	65.7	61.0	65.4	66.2	67.3	5[illegible].5	69.7	70.9	73.4	75.9	76.3							107.6
LOC SCHENECTADY	200	66.7	60.7	65.4	66.9	69.5	6[illegible].3	72.4	74.2	75.2	77.4	78.1							108.4
DATE 1/9/75	250	66.7	62.7	69.2	69.9	71.5	6[illegible].5	73.2	73.2	74.4	75.4	76.3							109.3
RUN 46/6	315	69.2	64.5	70.7	71.7	72.8	7[illegible].5	73.4	74.2	74.7	76.2	75.8							110.9
TAPE	400	66.7	63.2	66.7	69.7	71.5	7[illegible].5	73.2	74.2	75.4	75.2	74.6							109.6
BAR 29.7 MG	500	65.8	61.5	67.9	69.5	71.8	7[illegible].5	73.9	73.7	74.4	74.2	73.3							108.4
(98228. N/M2)	630	67.3	64.8	70.7	72.7	74.3	7[illegible].8	76.2	76.9	77.7	77.2	74.6							111.8
TAMB 50. DEG F	800	66.8	64.8	71.8	73.7	74.8	7[illegible].1	77.7	79.2	79.2	77.9	73.6							112.1
(283. DEG K)	1000	66.3	65.8	72.9	73.7	74.8	7[illegible].8	78.4	79.8	80.7	78.9	73.6							112.8
THET 46. DEG F	1250	74.6	91.3	79.2	81.3	84.4	8[illegible].8	86.7	86.7	86.4	85.7	80.8							120.2
(281. DEG K)	1600	72.8	91.8	78.9	80.8	83.8	8[illegible].9	86.8	86.7	86.4	83.2	77.1							119.1
MACT 0.96 GM/M3	2000	72.3	90.3	77.7	80.8	83.4	8[illegible].1	85.8	85.1	85.2	81.2	76.1							118.2
(.00096 KG/M3)	2500	70.3	99.1	85.4	86.8	90.2	9[illegible].8	90.9	92.1	91.9	85.8	84.1							125.7
NFA 5510. RPM	3150	75.8	96.3	82.8	85.4	88.4	9[illegible].1	90.3	91.3	90.7	84.8	82.8							123.8
(577. RAD/SEC)	4000	78.7	95.8	83.5	88.8	92.4	9[illegible].5	94.7	92.7	92.6	88.7	84.8							125.3
NFK 5550. RPM	5000	73.7	92.7	81.5	85.1	87.3	9[illegible].2	91.2	91.2	90.8	84.8	79.4							122.4
(582. RAD/SEC)	6300	73.8	93.8	81.7	84.7	89.7	9[illegible].7	90.4	91.8	90.8	84.3	79.5							122.7
NFB 8823. RPM	8000	69.8	89.9	78.9	82.6	85.8	9[illegible].8	87.9	90.2	88.6	83.8	77.8							120.3
(924. RAD/SEC)	10000	68.8	88.9	77.4	81.7	84.4	9[illegible].2	87.7	88.9	88.8	84.8	77.8							119.7
NO. OF BLADES IS	12500	67.5	86.6	78.7	79.2	83.5	9[illegible].1	86.8	87.7	87.2	82.7	78.2							116.5
FAN TIP SPEED	16000	64.2	83.8	71.8	75.3	79.2	9[illegible].7	83.3	85.5	84.7	81.7	72.9							116.8
481. FT/SEC	20000	62.7	81.8	70.8	74.8	77.5	9[illegible].1	82.3	84.8	83.8	80.3	71.9							115.5
	25000	61.2	81.3	67.4	71.5	75.1	9[illegible].2	79.2	80.5	80.8	78.8	69.8							114.4
	31500	60.4	81.4	65.8	74.8	73.8	9[illegible].8	77.9	79.5	79.4	74.2	67.8							116.1
	40000	60.8	80.7	63.8	68.9	71.4	8[illegible].4	75.3	76.1	76.1	71.8	66.1							116.3
	50000	61.7	82.1	63.4	64.8	70.3	9[illegible].5	72.8	73.5	72.4	71.7	67.2							123.5
	63000	62.5	83.2	62.8	63.6	69.4	9[illegible].4	70.7	71.5	69.3	71.8	68.8							127.8
	80000	65.8	84.5	63.4	65.8	70.3	8[illegible].8	72.8	72.5	70.8	73.8	78.3							126.9
OVERALL MEASURED																			
OVERALL CALCULATED		85.9	104.7	92.1	95.1	98.5	9[illegible].8	108.7	101.8	100.7	98.2	92.3							136.3
PNDB		99.9	118.7	106.7	109.2	112.4	10[illegible].1	114.8	113.9	113.8	109.9	106.1							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 14.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	42.7	44.3	55.2	50.1	55.9	40.8	52.2	49.9	48.0	48.3	48.2						
VEHICLE R-55	125	45.6	50.9	49.3	48.5	52.3	37.6	45.7	47.8	48.8	46.1	44.2						
CONFIG [illegible]	160	42.5	50.6	43.9	44.5	48.5	37.3	46.8	46.9	47.8	48.0	44.8						
LOC SCHEVECTADY	200	43.4	50.3	43.4	45.1	47.6	38.0	49.5	50.1	49.5	49.3	46.0						
DATE 1/9/76	250	45.3	50.2	47.1	48.0	49.9	36.2	50.1	49.8	48.6	47.1	44.8						
RUN 46/6	315	45.7	51.8	48.5	49.7	50.7	37.1	50.3	49.8	48.7	47.7	43.2						
TAPE	400	43.1	50.5	46.4	47.6	49.4	37.8	49.9	49.6	49.3	46.6	41.7						
BAR 28.7 HG	500	42.8	50.8	45.8	47.3	49.3	36.0	50.6	49.2	48.2	45.4	40.2						
(80226. N/M2)	630	43.4	51.0	46.2	50.5	52.0	36.8	52.7	52.3	51.3	46.2	41.1						
TAMB 50. DEG F	800	44.1	51.7	49.4	51.4	52.4	40.2	54.1	54.4	52.8	48.7	40.0						
(283. DEG K)	1000	44.2	51.8	50.2	51.2	52.8	39.6	54.7	55.8	53.9	49.4	39.7						
TWET 46. DEG F	1250	50.3	57.9	50.4	50.7	51.8	42.7	54.8	53.5	51.5	50.9	40.8						
(281. DEG K)	1600	48.3	57.5	55.9	56.0	60.0	40.6	62.0	61.3	59.2	53.1	42.8						
HACT 0.9% GM/M3	2000	47.6	56.0	54.5	57.9	60.3	41.6	61.3	59.0	57.7	50.6	40.5						
(.00096 KG/M3)	2500	53.4	75.1	62.0	63.8	66.9	51.9	66.4	66.3	64.2	54.7	47.9						
NFA 5510. RPM	3150	56.6	72.1	59.8	62.0	64.9	51.1	65.8	65.2	62.5	53.1	48.1						
(577. RAD/SEC)	4000	53.8	70.3	59.5	60.8	66.4	51.2	66.8	66.8	63.7	50.9	46.3						
NFK 5958. RPM	5000	47.7	67.8	57.2	61.0	63.2	49.6	65.6	64.2	61.6	51.9	49.8						
(582. RAD/SEC)	6300	46.1	67.3	56.6	59.9	64.8	48.3	64.1	63.8	60.5	50.2	38.8						
NFB 6023. RPM	8000	41.7	63.0	52.8	56.6	59.6	46.1	60.3	60.6	56.6	47.2	33.3						
(924. RAD/SEC)	10000	38.9	60.4	49.8	54.3	56.9	43.1	58.4	57.8	54.1	44.7	28.2						
NO. OF BLADES 15	12500	35.8	55.7	49.8	49.6	53.8	41.6	54.9	53.6	49.4	38.9	19.8						
FAN TIP SPEED	16000	27.4	48.2	38.2	42.2	45.9	41.5	47.4	46.7	41.3	38.0	0.7						
481. FT/SEC	20000	28.2	41.9	31.5	36.1	39.4	31.8	40.9	39.6	32.8	19.8							
	25000	18.6	34.1	22.8	26.8	30.1	33.8	30.8	26.8	19.4	2.2							
	31500		23.4	10.3	15.4	18.8	26.9	17.4	12.7	2.8								
	40000		0.8			1.8	18.9											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		60.7	80.2	60.2	71.2	74.3	61.8	75.2	73.4	71.5	64.3	50.7						
PNdB		74.3	94.8	82.1	85.4	88.8	78.7	89.8	87.4	85.1	78.8	68.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 17.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.76)	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	69.5	70.3	73.7	74.4	75.5	74.8	72.9	69.9	71.4	75.2	77.8							107.5
VEHICLE R-55 125	69.5	68.9	70.4	69.9	74.5	68.8	68.4	71.4	73.7	73.9	75.8							105.3
CONFIG FOR 32 160	69.5	65.8	65.9	66.6	68.8	68.0	70.4	71.2	73.4	75.9	76.1							104.4
LOC SCHENECTADY 200	69.5	65.7	66.4	66.1	71.5	71.3	72.7	73.7	75.6	77.7	78.4							106.4
DATE 1/13/75 250	69.5	68.5	69.9	71.1	73.9	72.2	73.4	74.7	74.8	78.2	78.1							106.5
RUN 47/1 315	69.5	69.7	70.4	72.6	73.9	73.8	73.4	74.2	74.9	78.7	78.4							107.0
TAPE 400	69.6	68.5	69.4	70.9	73.3	72.5	74.7	74.4	75.4	75.4	74.3							106.7
BAR 29.7 HG 500	69.6	66.5	67.7	69.9	71.1	72.3	74.7	73.9	74.4	74.9	73.3							105.9
(98295. N/M2) 630	69.6	69.3	70.4	72.2	74.3	75.6	76.7	76.9	77.7	78.8	78.8							108.7
TAMB 41. DEG F 800	69.6	69.5	71.7	73.7	74.6	75.6	77.7	78.8	79.2	77.7	74.8							109.6
(278. DEG K) 1000	69.6	71.2	73.7	74.2	75.8	77.3	78.4	79.4	80.7	79.2	74.1							110.7
TWET 39. DEG F 1250	69.6	77.3	78.7	81.5	84.6	86.6	88.7	88.9	88.7	85.7	81.3							119.3
(277. DEG K) 1600	69.6	75.5	78.2	80.5	83.4	85.1	86.4	86.7	86.4	83.4	77.8							117.4
HACT 5.72 GM/M3 2000	69.6	75.8	78.7	81.8	84.1	85.4	86.1	85.4	85.4	81.8	76.8							117.1
(.00572 KG/M3) 2500	69.6	84.8	87.4	88.8	89.4	94.4	90.9	97.1	95.4	89.8	84.1							127.3
NFA 5478. RPM 3150	69.6	81.1	83.4	85.3	87.4	90.6	93.8	92.8	91.9	86.8	81.8							123.2
(573. RAD/SEC) 4000	69.6	82.8	85.3	85.8	89.9	91.3	95.5	96.3	92.8	86.5	82.7							125.1
NFK 5574. RPM 5000	69.5	78.7	81.5	85.8	89.9	88.5	91.9	91.2	90.8	84.9	79.4							122.2
(584. RAD/SEC) 6300	69.6	77.8	80.2	84.9	87.5	87.5	89.7	90.8	91.2	84.8	79.8							121.2
NFB 8823. RPM 8000	69.7	74.9	78.5	82.4	84.1	86.4	87.5	88.7	88.7	83.3	77.8							119.1
(924. RAD/SEC) 10000	69.9	74.0	77.7	81.9	83.7	86.2	88.9	89.0	88.3	82.4	77.3							119.1
NO. OF BLADES 19 12500	70.1	72.2	75.8	80.0	82.6	84.1	86.3	87.8	87.2	81.2	75.5							117.9
FAN TIP SPEED 16000	70.4	69.4	72.7	76.8	79.5	81.8	83.2	85.8	84.5	78.3	73.2							115.0
478. FT/SEC 20000	72.1	67.7	70.6	74.7	77.6	80.7	81.9	84.2	83.7	77.4	71.8							114.7
25000	74.1	66.7	68.5	73.8	75.7	79.5	80.8	81.3	80.8	75.7	69.8							113.1
31500	76.5	65.5	67.9	71.5	75.4	80.1	78.7	80.8	80.4	74.5	68.2							113.6
40000	79.2	64.7	66.7	69.4	72.5	78.4	75.8	78.4	78.9	72.1	66.8							112.1
50000	82.9	65.7	67.5	68.4	69.5	76.9	73.8	73.4	72.8	70.8	66.2							112.8
63000	86.7	66.4	68.7	68.7	68.8	76.9	70.2	70.2	69.3	69.8	67.5							113.7
80000	91.4	69.3	70.7	69.8	68.9	72.7	70.8	70.8	69.4	70.3	68.9							117.3
OVERALL MEASURED																		
OVERALL CALCULATED	93.8	90.1	92.9	95.2	97.7	99.9	103.1	102.8	101.8	98.3	92.2							133.2
PNDB	93.8	104.1	106.8	106.7	111.8	113.4	116.9	116.1	114.9	109.8	106.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 YR. 17.4

MODEL SOUND PRESSURE LEVELS (89. DEG. F. 79 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (	0. 180.	0. 190.	0. 200.	0. 210.	0. 220.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	3[illegible].5	46.0	51.9	52.8	53.9	52.7	50.2	46.1	46.1	47.5	46.4						
VEHICLE R-55	125	3[illegible].4	45.7	48.6	47.2	52.6	48.7	45.7	47.5	46.2	46.1	44.2						
CONFIG [illegible]	160	3[illegible].3	43.3	44.0	44.9	47.0	45.8	47.6	47.2	47.8	48.0	44.2						
LOC SCHENECTADY	200	3[illegible].2	43.3	44.4	46.3	49.6	48.7	49.7	49.6	49.7	49.6	46.2						
DATE 1/13/75	250	3[illegible].1	45.9	47.6	49.2	51.1	49.9	50.4	49.5	48.8	47.9	48.7						
RUN 47/1	315	3[illegible].0	47.1	48.2	50.7	51.0	50.0	50.3	49.9	49.0	48.2	48.7						
TAPE	400	3[illegible].9	45.7	47.2	48.8	51.2	50.8	51.4	50.8	49.3	48.9	41.5						
BAR 29.7 HG	500	3[illegible].9	43.6	45.3	47.8	48.8	49.7	51.3	49.4	48.2	48.1	46.2						
(98295. N/M2)	630	3[illegible].8	46.3	48.8	49.9	52.0	52.0	53.2	52.3	51.3	48.9	41.4						
TAMB 41. DEG F	800	3[illegible].6	48.4	49.1	51.3	52.1	52.7	54.1	54.1	52.8	49.4	48.8						
(278. DEG K)	1000	3[illegible].5	48.0	51.0	51.7	53.2	54.3	54.7	54.5	53.9	49.7	39.2						
THET 39. DEG F	1250	3[illegible].4	53.9	55.8	56.9	61.9	63.5	64.8	63.8	61.7	55.9	48.8						
(277. DEG K)	1600	3[illegible].2	52.9	55.2	57.7	60.5	61.8	62.3	61.3	59.2	53.1	42.6						
WACT 5.72 GM/M3	2000	3[illegible].9	52.1	55.5	58.8	61.1	61.9	61.9	59.8	57.9	51.6	41.2						
(.00572 KG/M3)	2500	3[illegible].7	60.0	64.8	65.7	66.2	70.7	74.4	71.3	67.7	58.2	47.9						
WFA 5476. RPM	3150	3[illegible].4	56.8	59.7	61.9	63.9	66.7	69.8	66.7	63.7	54.8	44.8						
(573. RAD/SEC)	4000	3[illegible].0	57.3	61.2	62.8	66.8	66.9	70.2	69.6	64.9	56.2	44.5						
WFK 5574. RPM	5000	3[illegible].9	53.8	57.2	61.7	65.7	63.9	66.4	64.2	61.6	52.2	40.5						
(584. RAD/SEC)	6300	3[illegible].7	51.1	55.6	58.1	62.6	62.1	63.3	62.8	61.8	50.5	38.7						
WFB 8823. RPM	8000	3[illegible].8	48.1	52.3	56.5	58.2	59.9	59.9	59.4	58.7	47.0	44.6						
(924. RAD/SEC)	10000	3[illegible].0	45.5	50.0	54.6	56.2	58.1	56.7	57.7	54.9	43.0	28.5						
NO. OF BLADES 15	12500	2[illegible].6	41.3	45.9	50.4	52.9	53.7	54.5	54.7	49.5	37.4	28.2						
FAN TIP SPEED	16000	2[illegible].5	34.9	39.9	43.4	46.2	47.5	47.2	47.0	41.1	27.2	7.1						
478. FT/SEC	20000	1[illegible].6	27.7	32.1	36.8	39.6	41.4	40.8	38.2	32.9	16.7							
	25000	1[illegible].5	19.4	23.8	28.3	28.7	33.1	30.8	27.6	19.8	1.3							
	31500	[illegible].1	7.4	12.3	16.9	20.4	23.3	18.2	13.3	3.8								
	40000				0.1	2.6	0.0											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		4[illegible].4	66.7	68.9	71.3	73.6	73.3	72.9	70.8	72.6	64.8	56.7						
MEAS		8[illegible].0	79.9	83.2	85.6	87.3	89.5	92.2	88.9	86.8	78.8	68.8						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 12.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.32)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.06)	150. (2.78)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
50																		
63																		
80																		
100	66.3	66.3	71.2	73.1	76.0	76.3	75.2	74.7	73.9	72.7	69.0							100.7
125	66.3	66.3	71.9	71.1	74.8	72.3	71.9	74.9	76.4	77.9	79.8							107.0
160	65.3	66.3	69.4	70.6	70.8	71.3	73.2	74.4	77.4	79.7	80.8							107.9
200	65.2	66.2	69.4	70.9	72.8	74.3	75.2	77.7	78.4	80.7	81.8							109.4
250	66.2	67.0	72.9	74.1	74.5	75.8	76.4	76.7	77.9	79.4	80.3							109.4
315	69.2	68.2	73.9	75.6	75.8	76.8	77.2	77.7	78.7	80.4	80.1							110.4
400	68.2	68.2	72.7	73.4	74.0	75.0	76.2	76.9	78.2	78.2	78.1							109.8
500	66.2	68.2	70.9	72.9	74.3	75.3	77.2	77.4	77.7	78.2	77.1							108.9
630	68.2	68.2	73.7	75.2	76.8	78.3	79.2	79.9	80.9	80.7	78.1							111.4
800	68.2	68.2	74.7	76.2	77.6	78.6	80.4	81.4	81.7	79.9	77.6							112.2
1000	68.2	68.2	75.9	76.7	77.6	79.6	80.9	81.7	83.2	80.9	78.0							112.9
1250	69.2	68.2	77.4	79.5	81.6	83.6	85.2	85.9	86.2	82.2	78.8							116.3
1600	70.2	67.2	83.7	87.5	90.8	91.4	91.9	93.2	92.9	87.7	82.1							123.0
2000	71.2	66.2	81.2	84.5	86.6	87.9	89.8	88.9	88.2	83.2	79.3							120.0
2500	72.2	65.2	82.6	86.3	88.2	89.9	90.9	91.1	90.9	85.9	80.3							121.0
3150	73.2	66.2	87.6	90.1	91.7	97.1	99.6	98.3	94.7	89.8	84.0							120.4
4000	75.2	68.2	87.3	91.3	92.9	93.1	94.0	94.9	93.1	87.5	82.2							125.4
5000	80.2	74.2	95.2	99.8	99.9	95.8	97.7	100.7	95.3	93.2	88.4							131.0
6300	73.2	67.2	85.4	89.4	92.2	94.2	94.7	94.8	93.1	87.4	82.9							128.9
8000	71.2	64.2	85.0	89.1	90.9	91.8	92.8	93.2	92.2	86.3	81.8							123.9
10000	70.2	64.2	83.5	87.4	88.4	91.5	92.7	93.7	92.5	86.3	81.0							123.9
12500	69.2	63.2	81.5	85.7	87.3	90.1	91.3	92.8	90.7	85.0	79.8							122.8
16000	68.2	61.2	77.7	81.1	83.8	86.5	87.9	90.8	87.8	82.4	76.7							120.4
20000	65.3	61.2	76.3	80.2	82.3	86.8	87.1	90.5	87.2	82.3	75.5							120.5
25000	64.2	63.2	74.7	78.2	80.2	83.3	85.0	88.6	85.1	80.2	73.1							120.8
31500	64.2	63.0	73.8	77.0	79.6	80.4	83.7	87.8	84.2	80.9	71.2							120.8
40000	66.2	63.7	70.4	74.4	76.5	80.2	81.1	85.2	80.9	77.3	67.7							120.8
50000	71.4	66.5	69.5	72.1	73.5	78.7	77.5	80.9	78.8	74.1	67.2							122.8
63000	75.9	68.1	69.8	69.7	69.8	69.4	72.7	75.8	71.8	71.8	68.3							123.1
80000	76.7	68.5	70.7	69.8	69.4	83.4	78.6	72.1	69.8	71.1	69.1							122.4
OVERALL MEASURED																		
OVERALL CALCULATED	87.3	86.2	96.1	102.1	103.2	104.4	105.0	106.0	103.5	99.2	94.9							137.1
PWL	108.8	93.3	112.0	116.4	117.3	117.8	118.8	119.2	116.2	113.8	108.3							

RADIAL 17. FT. (5. M)
VEHICLE A-55
CONFIG 200.82
LOC SCHENECTADY
DATE 1/13/75
RUN 47/2
TAPE
BAR 29.7 MG (00295. N/M2)
TAMB 41. DEG F (278. DEG K)
TMET 39. DEG F (277. DEG K)
MACT 5.72 GM/M3 (.00572 KG/M3)
NFA 6252. RPM (655. RAD/SEC)
NFK 6363. RPM (666. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 846. FT/SEC

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OF POOR QUALITY

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PRO. 17.6

MODEL SOUND PRESSURE LEVELS (DB, REF. P= 20 MICRONT REL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.00 PI	100	45.3	38.0	49.4	51.6	54.4	54.2	52.5	50.9	49.0	50.0	49.4						
VEHICLE R=55	125	42.1	37.0	50.1	49.5	53.1	50.2	49.2	51.0	51.0	50.1	48.2						
CONFIG 40A32	160	42.1	37.0	47.5	48.9	49.0	49.1	50.3	50.4	51.0	51.7	49.0						
LOC SCHENECTADY	200	42.2	37.0	47.4	49.1	50.9	52.0	52.2	53.0	52.7	52.0	49.7						
DATE 1/13/75	250	44.9	38.4	50.0	52.2	52.0	52.7	53.4	52.5	52.1	51.1	48.0						
RUN 47/2	315	45.5	37.6	51.7	53.7	53.7	54.3	54.0	53.4	52.7	52.0	47.5						
TAPE	400	44.4	37.5	51.4	51.3	51.9	52.5	52.9	52.5	52.1	50.0	48.2						
BAR 29.7 HG	500	42.6	37.4	48.6	50.8	52.1	52.7	53.0	52.9	51.4	49.4	43.9						
(100295. N/M2)	630	44.3	37.3	51.2	54.9	54.5	55.6	55.7	55.3	54.5	51.7	44.6						
TAMB 61. DEG F	800	44.4	37.2	52.1	53.8	55.1	55.7	56.0	56.0	55.1	50.7	43.8						
(278. DEG K)	1000	44.5	37.0	53.2	54.2	55.8	56.6	57.2	56.7	56.4	51.4	42.7						
TMET 39. DEG F	1250	45.0	37.9	54.0	56.9	58.9	60.5	61.3	60.8	59.2	52.4	44.3						
(277. DEG K)	1500	51.2	44.2	60.7	64.7	67.8	68.1	67.8	67.0	65.7	57.0	47.0						
MACT 5.72 GM/M3	2000	48.2	40.6	58.0	61.6	63.6	64.4	65.4	63.3	62.7	52.6	43.7						
(.005572 KG/M3)	2500	46.5	41.1	59.3	63.2	64.9	66.2	66.4	65.3	63.2	54.2	44.2						
NFA 8252. RPM	3150	50.9	44.3	64.6	66.7	68.2	73.2	74.8	72.2	66.5	56.4	46.1						
(865. RAD/SEC)	4000	49.3	43.3	63.2	67.5	69.0	68.7	66.7	67.0	64.3	55.2	44.0						
NFK 6383. RPM	5000	51.7	49.0	70.9	75.5	75.7	71.1	72.1	73.7	68.1	60.4	47.2						
(668. RAD/SEC)	6300	48.5	41.6	69.4	64.6	67.3	68.9	68.3	68.6	62.7	53.2	41.6						
NFD 6823. RPM	8000	48.3	38.1	58.6	63.3	64.9	65.1	64.4	63.9	58.3	50.0	37.3						
(924. RAD/SEC)	10000	46.0	36.3	55.6	60.1	61.8	63.6	63.4	62.4	56.2	47.8	32.3						
NO. OF BLADES 15	12500	43.0	33.5	51.6	56.2	57.6	58.7	59.5	58.7	53.8	41.2	23.4						
FAN TIP SPEED	16000	39.3	27.1	44.8	47.9	50.4	54.3	52.8	52.8	46.4	31.8	10.8						
846. FT/SEC	20000	33.6	21.8	37.6	42.3	44.2	48.7	45.7	45.4	36.4	21.7							
	25000	28.8	15.9	29.1	33.6	35.7	42.8	38.8	38.8	23.7	6.8							
	31500	22.1	4.9	18.1	22.4	24.6	33.8	28.2	21.8	7.4								
	40000				9.1	6.6	17.2	3.7										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED	SPL	54.8	54.4	73.7	77.8	78.6	78.8	79.3	78.5	78.8	67.1	59.8						
	PNDB	71.0	68.4	84.5	92.5	93.3	92.9	93.9	92.8	87.8	80.9	71.3						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 YR. 12.4

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0. 118.	0. 118.	0. 118.	0. 118.	0. 118.	0. 118.	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(S. N) 100	7[illegible]	70.2	73.7	74.3	74.8	74.7	73.4	73.2	70.7	81.2	84.3							118.8
VEHICLE A-88 125	7[illegible]	70.2	79.7	80.1	79.3	79.8	75.9	77.4	79.7	81.2	84.0							118.8
CONFIG [illegible] 160	7[illegible]	70.2	72.9	74.1	74.8	75.2	76.9	78.2	81.2	83.4	84.9							111.8
LOC SCHENECTADY 200	7[illegible]	70.2	71.9	74.6	76.8	78.2	78.2	80.2	81.9	84.4	85.8							113.8
DATE 1/13/75 250	7[illegible]	71.4	70.2	77.8	78.8	79.2	79.9	80.7	81.9	84.2	84.3							113.9
RUN 4/3 315	7[illegible]	70.2	77.2	74.6	79.8	79.5	80.8	80.9	82.7	83.9	84.1							113.8
TAPE 400	7[illegible]	70.2	75.2	76.6	77.5	78.2	79.2	80.9	81.9	82.4	82.9							112.7
BAR 29.7 MB 500	7[illegible]	70.2	73.7	76.1	77.5	78.3	79.9	80.2	80.9	82.2	81.3							112.2
(99295. N/M2) 630	7[illegible]	70.2	76.2	78.6	80.1	81.8	82.4	83.2	83.4	83.2	81.8							114.5
TAMB 42. DEG F 800	7[illegible]	70.2	77.4	79.9	80.8	81.3	82.9	84.2	83.7	82.9	81.1							115.8
(279. DEG K) 1000	7[illegible]	70.2	78.4	79.9	80.8	82.8	83.4	84.2	84.7	82.4	79.8							115.3
THET 30. DEG F 1250	7[illegible]	70.2	78.9	81.4	83.1	84.5	86.2	86.9	86.9	83.8	80.8							117.4
(277. DEG K) 1600	7[illegible]	70.2	87.2	92.2	93.1	95.3	94.4	93.2	92.2	88.2	84.3							125.7
MACT 5.42 GM/M3 2000	7[illegible]	71.8	87.7	92.8	93.4	95.1	95.4	93.9	92.7	88.8	84.8							126.1
(.00542 KG/M3) 2500	7[illegible]	72.2	85.7	89.5	90.7	91.6	92.9	92.8	91.8	88.8	82.3							123.8
NFA 7034. RPM 3150	7[illegible]	71.8	90.8	93.5	96.2	98.1	100.8	103.8	98.2	91.8	88.8							131.8
(736. RAD/SEC) 4000	7[illegible]	72.2	91.3	94.3	96.4	97.5	100.8	103.8	96.6	91.7	88.8							131.8
NFK 7152. RPM 5000	6[illegible]	80.8	101.8	103.2	101.1	100.8	105.8	103.2	99.1	92.7	98.4							133.2
(749. RAD/SEC) 6300	7[illegible]	73.7	92.8	95.4	96.7	97.2	94.2	96.8	94.8	90.4	88.8							129.4
NFB 8023. RPM 8000	7[illegible]	72.2	88.7	94.1	94.7	96.8	96.8	97.2	94.2	89.3	84.1							128.1
(824. RAD/SEC) 10000	7[illegible]	71.2	87.8	91.7	93.2	96.8	97.5	97.2	94.3	89.4	84.1							127.9
NO. OF BLADES 18 12500	7[illegible]	70.9	85.8	90.8	92.1	93.9	95.4	96.3	92.3	87.8	81.8							126.4
FAN TIP SPEED 16000	7[illegible]	70.9	82.5	85.9	88.1	90.3	92.7	94.2	96.8	87.1	80.8							124.8
814. FT/SEC 20000	7[illegible]	71.4	80.7	85.3	87.7	89.7	91.9	94.3	91.8	87.9	78.8							124.2
25000	7[illegible]	73.5	79.8	84.3	85.8	87.8	89.8	92.1	89.7	86.8	78.7							123.8
31500	7[illegible]	74.8	77.2	82.8	84.7	87.8	88.3	91.4	87.8	87.8	76.8							122.9
40000	7[illegible]	74.2	74.4	80.4	82.2	84.2	85.8	88.2	84.8	85.4	78.8							121.8
50000	7[illegible]	76.5	71.8	79.3	78.5	82.4	82.2	86.2	79.8	84.4	88.9							121.2
63000	6[illegible]	78.8	69.7	78.1	78.7	81.7	78.1	83.2	73.7	79.8	88.2							123.2
80000	6[illegible]	78.6	78.5	78.1	78.8	81.2	71.9	78.9	78.2	78.2	89.2							120.7
OVERALL MEASURED																		
OVERALL CALCULATED	9[illegible]	8[illegible]	103.7	106.1	106.7	107.2	108.8	110.4	108.8	101.8	98.8							140.8
PNOW	10[illegible]	10[illegible]	110.1	120.3	118.8	126.8	123.3	120.2	119.8	114.2	111.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 17.8

MODEL SCALE PRESSURE LEVELS 100. 666. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (ARC RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.5	47.9	51.9	52.8	53.1	52.7	50.7	49.4	51.3	53.5	52.9						
VEHICLE R-85	125	48.0	47.9	57.8	58.4	57.5	54.9	53.2	53.0	54.2	53.4	52.7						
CONFIG 60R52	160	47.4	47.8	51.0	52.4	53.0	53.0	54.1	54.2	55.6	55.5	53.6						
LOC SCHENECTADY	200	48.2	47.7	49.9	52.8	54.9	54.8	55.2	54.1	54.2	54.3	53.7						
DATE 1/13/75	250	49.1	48.6	54.1	55.9	56.0	56.9	56.9	56.5	56.1	55.9	52.8						
RUN 47/3	315	48.7	47.5	55.0	56.6	57.0	57.0	57.0	56.6	56.7	56.5	51.5						
TAPE	400	48.4	47.4	52.9	54.5	55.4	55.7	55.9	56.8	55.0	53.0	49.7						
BAR 28.7 MB	500	46.6	47.0	51.3	54.0	55.3	55.6	56.0	55.7	54.7	53.4	48.2						
(98298. N/M2)	630	48.2	47.2	53.7	56.4	57.7	58.3	59.0	58.6	57.8	56.2	48.1						
TAMB 62. DEG F	800	48.1	47.1	54.8	57.5	58.4	58.4	59.3	59.4	57.1	53.7	47.3						
(279. DEG K)	1000	49.7	47.6	55.7	57.4	58.2	59.1	59.7	59.2	57.9	52.9	45.7						
TWET 59. DEG F	1250	51.1	48.8	56.1	56.8	60.4	61.4	62.3	61.8	60.8	53.2	46.8						
(277. DEG K)	1600	55.4	48.7	64.2	69.4	70.3	72.8	70.3	67.8	59.8	50.1	49.3						
HACT 5.42 GM/M3	2000	53.9	47.3	64.5	69.8	70.3	71.6	71.1	68.3	60.2	50.3	49.2						
(.000342 LB/M3)	2500	54.5	48.2	62.3	66.6	67.6	67.8	66.6	67.1	64.2	55.2	48.2						
NFA 7834. RPM	3150	53.6	48.8	67.8	70.1	74.7	74.1	75.8	77.7	68.8	60.4	51.8						
(730. RAD/SEC)	4000	52.8	47.5	67.2	70.5	74.5	73.1	75.5	77.1	67.8	59.9	50.3						
NFR 7152. RPM	5000	58.5	58.5	77.4	79.2	76.9	75.8	79.9	76.2	68.8	60.8	51.5						
(749. RAD/SEC)	6300	52.8	48.8	67.4	70.6	71.9	71.8	71.9	78.6	64.5	56.2	48.6						
NFB 6823. RPM	8000	48.3	45.8	62.6	66.3	68.7	70.1	69.2	67.9	62.2	53.6	39.9						
(924. RAD/SEC)	10000	44.3	42.7	60.1	64.3	65.7	67.9	68.2	66.8	60.8	50.8	38.3						
NO. OF BLADES 15	12500	48.9	48.8	58.7	60.6	62.4	63.6	63.6	62.2	54.8	46.9	28.8						
FAN TIP SPEED	16000	35.1	36.1	48.8	52.7	54.7	56.1	56.8	55.3	47.2	36.8	13.9						
914. FT/SEC	20000	29.4	31.5	42.2	47.4	49.5	50.5	50.5	49.3	40.3	27.2							
	25000	21.9	20.2	33.1	39.9	43.8	45.4	46.7	36.3	29.3	13.9							
	31500	10.8	10.0	21.7	28.2	29.7	30.1	27.8	24.0	11.8								
	40000		4.2	3.8	11.1	12.3	11.7	9.2	2.3									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		68.8	61.8	79.2	81.6	82.3	82.1	82.8	83.8	78.2	69.4	63.2						
PNLD		78.9	71.3	94.8	96.4	96.8	96.6	96.9	97.8	98.2	88.8	74.8						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 PR. 17.4

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. IN)	100	78.5	78.2	73.7	74.0	78.5	78.2	78.9	77.4	84.1	84.9	80.3							113.1
VEHICLE R-58	125	72.5	78.2	78.4	78.8	88.3	78.5	78.7	80.8	82.0	85.2	87.0							114.5
CONFIG 60R_02	160	72.7	78.2	78.2	77.6	77.8	77.7	79.9	81.7	84.3	86.7	88.3							115.0
LOC SCHNECTADY	200	73.7	78.2	75.2	77.3	79.5	81.6	81.9	83.9	89.3	87.9	89.0							116.4
DATE 1/13/75	250	75.8	71.4	78.9	80.8	81.5	82.2	83.7	84.1	85.0	86.9	88.1							116.7
RUN 47/4	315	75.2	78.2	79.9	81.3	82.8	82.7	83.7	84.8	85.0	86.9	87.0							117.8
TAPE	400	74.5	78.2	77.9	79.1	80.5	81.2	82.9	84.1	84.0	86.2	86.1							115.8
BAR 29.7 HG	500	73.8	78.2	78.7	78.9	80.8	81.8	82.9	83.4	84.1	85.4	84.8							115.3
(98295. N/M2)	630	74.1	78.2	74.9	81.4	82.8	84.3	85.2	85.9	86.3	88.2	84.8							117.3
TAMB 42. DEG F	800	74.8	78.2	79.9	81.9	82.8	84.3	85.9	87.1	86.8	85.2	84.1							117.8
(279. DEG K)	1000	74.3	78.2	80.9	81.9	82.8	84.5	85.9	86.9	87.1	84.4	82.8							117.8
THET 39. DEG F	1250	74.4	78.2	81.4	83.4	85.1	87.8	88.1	89.1	88.8	85.8	82.8							119.5
(277. DEG K)	1600	75.8	78.2	84.9	86.2	89.4	98.8	91.4	91.8	98.8	89.7	82.8							122.8
HACT 8.42 GM/M3	2000	83.8	78.8	95.9	98.8	98.1	98.8	101.8	99.8	98.1	82.8	88.8							131.7
(.00542 KG/M3)	2500	77.8	72.8	89.9	93.8	93.9	95.1	98.8	98.8	93.4	88.4	84.8							127.1
NFA 7813. RPM	3150	77.8	72.5	89.1	93.5	93.4	98.1	97.3	97.8	95.1	89.8	84.3							128.1
(818. RAD/SEC)	4000	81.8	78.8	95.8	100.3	101.1	101.3	100.8	110.5	101.8	96.7	94.7							137.8
NFA 7944. RPM	5000	82.5	74.7	95.8	99.2	102.1	103.2	101.8	101.7	97.2	94.4	87.7							133.4
(832. RAD/SEC)	6300	88.8	88.2	102.8	107.8	111.8	111.7	105.2	107.7	104.2	101.9	92.8							141.2
NFS 8023. RPM	8000	88.7	74.9	92.8	98.4	99.2	98.4	101.2	102.2	98.9	91.8	88.8							131.7
(924. RAD/SEC)	10000	78.2	74.5	92.8	95.2	97.7	100.2	100.5	100.5	98.7	91.8	87.1							131.3
NO. OF BLADES 18	12500	76.9	75.9	92.1	95.2	100.1	99.4	99.8	101.8	98.8	98.4	88.1							131.8
FAN TIP SPEED	16000	75.2	71.8	87.5	91.4	94.1	95.1	97.5	99.8	94.8	88.7	83.8							128.9
882. FT/SEC	20000	74.4	72.4	88.2	89.8	91.9	93.7	97.4	99.5	93.5	88.7	82.8							128.7
	25000	74.7	74.2	84.1	88.3	98.5	93.1	95.6	98.8	93.8	88.3	88.9							128.3
	31500	74.1	74.8	83.8	87.3	89.8	91.7	93.1	97.1	91.5	87.1	78.8							127.9
	40000	74.2	74.2	79.7	84.2	88.5	88.4	98.8	93.4	87.8	84.8	73.9							128.7
	50000	78.4	78.7	78.8	88.8	82.8	88.2	87.2	89.4	84.3	82.1	78.4							124.1
	63000	84.1	79.3	71.4	79.4	79.5	82.2	82.1	84.1	78.9	78.7	68.7							126.2
	80000	84.5	78.3	71.8	79.1	78.8	88.7	88.4	81.4	79.1	73.9	88.7							127.2
OVERALL MEASURED																			
OVERALL CALCULATED		95.2	89.1	108.8	118.2	113.8	113.8	113.8	114.8	109.3	108.9	101.8							148.2
	PWL	187.8	188.4	118.9	129.5	126.2	127.8	128.8	128.8	122.3	119.8	115.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 11 YR. 17.6

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)	0. (0.0)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	47.5	47.9	51.9	53.3	54.9	54.2	54.2	53.6	54.0	57.2	59.9						
VEHICLE R-SS 125	49.4	47.9	50.6	57.2	58.5	56.4	55.9	54.8	57.1	57.4	56.8						
CONFIG [illegible] 160	49.5	47.8	54.3	55.9	56.8	55.5	57.1	57.9	58.8	58.6	58.6						
LOC SCHENECTADY 200	50.4	47.7	53.2	55.5	57.6	56.7	59.8	59.6	59.6	58.8	57.5						
DATE 1/13/75 250	51.6	48.8	56.8	56.7	59.5	59.9	60.6	59.9	58.8	58.9	58.7						
RUN 47/4 315	51.7	47.5	57.7	59.4	60.7	60.3	60.5	60.3	59.6	58.5	58.8						
TAPE 400	50.9	47.4	55.7	57.8	58.4	58.7	59.7	59.2	58.3	57.9	53.2						
BAR 29.7 MG 500	49.3	47.3	54.3	56.7	58.6	58.4	59.6	58.9	57.9	56.8	51.7						
(98295. N/M2) 630	50.2	47.2	56.5	59.1	60.5	61.5	61.7	61.2	59.8	57.2	51.2						
TAMB 62. DEG F 800	50.6	47.1	57.3	59.5	60.4	61.4	62.3	62.3	60.8	55.9	50.3						
(290. DEG K) 1000	50.2	47.0	56.2	59.4	60.2	61.0	62.2	61.9	60.3	54.9	48.4						
TWET 39. DEG F 1250	50.1	46.8	56.0	58.8	62.0	63.9	64.3	64.8	61.8	55.7	48.8						
(277. DEG K) 1600	51.1	48.7	61.9	65.4	66.5	67.5	67.3	66.3	64.4	58.8	47.8						
HACT 5.42 GR/M3 2000	56.9	62.3	72.7	75.8	75.1	76.3	77.3	74.8	70.8	62.8	52.7						
(.00542 KG/M3) 2500	52.7	48.6	66.5	70.6	70.7	71.4	72.1	69.6	66.6	57.4	48.7						
RPM 7813. RPM 3150	52.6	49.3	69.5	70.1	71.9	72.1	72.5	71.4	66.9	58.4	49.3						
(818. RAD/SEC) 4000	56.1	53.3	71.7	76.5	77.2	76.9	63.5	63.6	72.2	64.5	56.8						
RPM 7944. RPM 5000	56.5	49.7	76.7	75.2	77.9	78.6	78.6	74.6	66.8	61.7	48.8						
(832. RAD/SEC) 6300	63.8	54.5	76.8	82.8	84.1	84.3	78.9	78.8	73.9	67.2	51.8						
RPM 8823. RPM 8000	52.5	48.8	69.8	76.5	73.2	71.9	73.7	72.9	64.9	59.3	42.4						
(924. RAD/SEC) 10000	48.3	46.8	65.1	67.8	78.2	72.1	71.8	69.2	62.4	52.2	38.3						
NO. OF BLADES 15 12500	46.4	43.8	62.2	65.7	76.4	68.9	67.8	67.4	58.7	48.5	38.7						
FAN TIP SPEED 16000	36.3	37.1	53.8	58.2	68.7	68.8	61.8	68.8	58.8	37.8	37.8						
882. FT/SEC 20000	31.8	32.5	47.7	51.9	53.8	54.5	58.8	54.8	42.7	28.8	8.2						
25000	24.1	28.9	38.6	43.6	45.8	46.2	46.4	44.8	32.3	13.2							
31500	11.7	16.8	27.4	32.7	34.8	34.8	32.5	38.4	14.8								
40000		8.2	9.8	14.8	16.8	16.8	13.2	7.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.8	62.8	68.7	68.8	68.1	68.3	68.9	68.7	78.3	72.8	68.4						
PNdB	81.8	78.7	94.4	99.3	101.8	102.1	101.8	101.4	93.1	88.9	78.2						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 21 YR. 17.04

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.00)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
	50																		
	63																		
BASELL 17. FT.	80																		
(5. MI	100	79.7	78.2	73.9	74.8	78.8	78.7	78.9	78.8	80.3	88.4	87.8							113.8
VEHICLE R=85	125	78.7	78.2	77.9	78.8	80.8	79.5	78.7	81.4	82.8	88.7	88.1							119.8
CONFIG 50R/12	160	80.8	78.2	75.9	77.1	77.3	80.8	80.2	81.9	84.8	88.9	88.3							118.8
LOC SCHENECTADY	200	82.8	78.9	75.4	77.1	79.8	82.2	81.7	83.6	85.1	88.2	89.3							118.7
DATE 1/13/75	250	83.2	71.7	78.9	80.8	81.5	82.8	84.7	84.4	86.1	87.7	88.3							117.2
RUN 47/5	315	75.7	78.2	79.7	81.1	81.8	80.5	83.2	84.1	86.1	87.2	87.8							117.3
TAPE	400	74.5	78.2	77.7	79.1	80.3	83.2	82.7	83.9	84.8	88.7	88.1							119.9
BAR 29.7 MB	500	78.8	78.2	78.7	78.9	80.8	83.8	82.9	83.4	84.1	85.4	84.8							119.8
(98295. N/M2)	630	80.3	78.2	78.9	81.1	82.8	83.8	84.9	85.9	86.8	86.8	84.8							117.8
TAMB 43. DEG F	800	74.8	78.2	79.7	81.8	82.8	83.8	85.9	86.8	86.8	85.2	84.1							117.8
(279. DEG K)	1000	80.1	78.2	80.9	81.9	82.8	84.8	86.1	87.1	86.8	84.9	82.8							118.7
TWET 38. DEG F	1250	80.6	78.2	81.2	83.4	85.3	86.8	88.1	89.1	88.8	84.7	82.8							119.8
(277. DEG K)	1600	89.8	78.2	84.9	87.7	89.4	91.1	91.8	91.6	90.8	89.8	83.8							123.2
RHOT 0.12 GM/M3	2000	91.1	78.5	88.4	87.8	88.1	100.1	101.8	99.8	98.4	93.8	88.1							131.8
(.00512 LB/M3)	2500	81.9	72.8	88.7	93.3	93.7	94.8	98.9	98.1	93.1	88.8	84.8							127.8
MFA 7811 RPM	3150	85.9	72.8	88.1	93.1	95.4	96.1	97.8	98.3	94.4	88.4	88.1							128.3
RAD/SEC)	4000	98.3	78.8	93.8	100.8	100.8	101.8	109.8	110.8	108.1	98.2	94.8							137.8
MFR RPM	5000	88.8	78.8	94.8	99.8	102.8	103.2	101.2	101.7	97.3	93.8	87.7							133.8
RAD/SEC)	6300	98.8	79.8	101.8	107.1	111.3	112.2	109.7	107.8	104.3	101.2	93.8							141.8
MFB 6883. RPM	8000	81.2	74.2	91.8	98.8	99.4	98.4	100.8	102.2	98.2	91.4	88.7							138.8
(824. RAD/SEC)	10000	78.2	74.8	92.3	98.7	97.3	100.8	99.8	100.8	98.8	91.8	87.3							131.2
NO. OF BLADES 15	12500	78.2	75.8	91.8	94.8	98.8	99.7	100.4	101.8	98.8	91.1	85.8							131.8
FAN TIP SPEED	16000	79.2	72.2	88.8	91.4	94.1	98.6	98.8	100.4	98.8	89.7	83.9							129.4
FT/SEC	20000	74.2	72.8	88.8	89.3	91.7	94.3	97.8	99.8	93.3	88.8	82.2							128.8
	25000	74.8	74.3	83.8	88.1	98.9	93.4	95.9	99.4	93.8	87.8	81.3							128.8
	31500	74.1	74.3	82.8	87.1	88.8	91.7	93.8	97.8	91.2	86.9	78.8							127.8
	40000	74.7	74.8	79.8	84.2	86.3	88.8	90.9	94.8	87.9	86.7	78.9							126.8
	50000	78.8	78.9	78.8	81.8	82.8	85.4	87.7	91.4	84.2	85.1	78.2							123.1
	63000	84.3	78.7	71.8	88.8	79.1	82.8	82.2	85.8	78.9	81.8	88.8							124.8
	80000	86.8	77.8	78.3	79.3	78.8	81.8	88.2	82.2	78.9	78.8	88.8							127.4
OVERALL MEASURED																			
OVERALL CALCULATED		98.4	88.9	105.2	108.8	113.2	114.2	113.3	114.7	108.1	108.7	101.8							148.4
	PWL	112.8	108.4	118.8	123.2	126.3	127.4	128.9	128.1	122.2	119.1	113.2							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 21 YR. 17.0

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.00)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (10.	0. (10.	0. (10.	0. (10.	0. (10.	0. (10.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	50.7	47.9	52.2	53.0	54.4	50.7	54.2	53.1	50.0	57.0	50.4						
VEHICLE R-08	125	55.6	47.9	54.1	50.9	50.3	57.4	55.9	57.5	57.1	57.9	50.5						
CONFIG PDC 02	160	50.0	47.6	54.0	55.4	55.3	57.0	57.3	57.9	50.0	50.0	50.5						
LOC SCHENECTADY	200	50.7	48.4	53.4	55.3	57.1	60.0	50.7	50.5	50.4	60.1	57.2						
DATE 1/13/75	250	50.0	49.1	50.0	50.7	50.5	57.0	60.0	60.2	50.3	50.4	50.0						
RUN 47/5	315	52.2	47.5	57.5	59.1	50.7	64.0	60.0	50.0	59.1	50.7	50.0						
TAPE	400	50.0	47.4	50.4	57.0	50.1	60.7	50.4	50.5	50.2	57.1	54.2						
BAR 29.7 MB	500	54.1	47.3	54.3	50.7	57.0	60.4	59.0	50.9	57.9	50.0	51.4						
(98295. N/M2)	630	50.5	47.2	50.5	50.0	60.5	61.0	61.4	61.2	60.4	57.4	51.4						
TAMB 63. DEG F	800	50.0	47.1	57.1	57.3	60.4	60.7	62.3	61.0	60.3	50.9	50.3						
(270. DEG K)	1000	54.3	47.0	50.2	59.4	60.2	61.0	62.4	62.2	50.0	50.4	60.0						
TWET 50. DEG F	1250	50.3	48.0	50.3	60.0	62.0	63.7	64.3	64.0	61.9	54.9	60.3						
(277. DEG K)	1600	60.1	60.7	61.9	64.9	64.0	67.0	67.0	60.3	63.0	55.4	60.0						
HACT 5.12 GM/M3	2000	66.4	51.0	72.2	74.5	75.1	70.0	77.3	74.3	7J.9	62.5	52.5						
(.00512 KG/M3)	2500	57.0	60.0	60.3	70.1	70.4	70.9	72.4	70.3	60.3	57.0	60.0						
NFA TOTAL RPM	3150	60.0	60.3	65.5	67.0	71.0	72.1	72.0	72.1	60.2	57.9	67.3						
RAD/SEC)	4000	64.0	53.0	71.0	70.7	77.0	77.2	03.7	03.0	71.2	64.0	50.0						
NFX RPM	5000	62.0	50.0	70.5	73.0	70.5	70.0	75.7	74.7	60.0	61.2	60.0						
RAD/SEC)	6300	63.7	53.3	70.4	02.4	00.4	00.9	79.4	79.0	73.0	67.0	52.0						
NFB 6023. RPM	8000	53.1	47.3	05.0	67.0	73.9	71.9	73.2	72.9	64.2	55.6	42.4						
(024. RAD/SEC)	10000	48.3	45.5	64.0	60.4	69.0	71.9	70.5	69.2	02.2	52.0	50.0						
NO. OF BLADES 18	12500	49.7	44.1	62.0	65.2	60.2	60.2	60.0	67.7	50.7	47.3	50.9						
FAN TIP SPEED	16000	30.4	37.4	55.2	50.3	62.0	61.4	62.1	61.0	5J.2	30.0	17.7						
FT/SEC	20000	31.7	32.6	47.0	51.5	53.0	50.0	50.4	54.0	42.5	20.3	1.0						
	25000	23.9	27.0	30.9	44.3	45.9	47.0	40.0	40.0	31.0	15.2							
	31500	11.7	10.2	20.9	32.9	34.0	34.0	33.3	30.9	14.4								
	40000		0.5	0.3	14.0	16.4	16.0	13.0	0.0									
	50001																	
	63001																	
	80023																	
OVERALL CALCULATED		73.7	62.4	01.4	03.2	00.3	00.2	07.1	00.7	79.1	73.0	00.4						
	PNLB	00.0	75.0	04.1	00.0	101.0	102.5	101.0	101.5	02.0	00.5	70.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 17.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ	5A. (1.02)	6A. (1.19)	7B. (1.36)	8A. (1.53)	9B. (1.71)	10A. (1.88)	11A. (2.06)	12A. (2.24)	13B. (2.42)	14B. (2.60)	15B. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI)	100	80.5	80.3	83.9	75.1	75.8	75.3	73.4	69.2	71.7	75.2	77.3							110.7
VEHICLE R=55	125	80.8	80.3	79.9	68.6	74.0	68.3	68.7	71.2	73.2	73.7	75.6							107.3
CONFIG +6R.22	160	80.5	80.3	78.4	67.6	67.5	67.8	70.2	70.9	72.7	75.7	74.3							105.3
LOC SCHENECTADY	200	80.5	80.2	78.4	69.6	70.0	71.0	72.4	74.2	75.4	77.7	78.6							107.1
DATE 1/13/75	250	81.0	80.2	78.9	71.1	71.5	72.5	73.4	73.7	74.2	75.9	75.8							107.7
RUN 47/A	315	80.5	80.2	80.2	72.4	72.5	73.0	73.4	74.2	74.4	75.7	75.6							108.4
TAPE	400	80.6	80.2	79.2	71.1	71.8	72.3	73.4	74.4	75.4	75.2	73.8							107.9
BAR 29.7 MG	500	80.6	80.3	78.9	69.9	71.1	72.0	73.4	73.9	74.2	75.2	73.8							106.8
(98295. N/M2)	630	80.8	80.3	79.9	72.4	74.3	75.8	76.2	76.9	77.9	78.2	74.6							109.8
TAMB 43. DEG F	800	80.6	80.3	81.2	73.9	74.8	75.8	77.7	78.9	78.9	77.4	73.6							110.8
(279. DEG K)	1000	80.6	80.2	82.7	74.4	75.3	77.1	78.2	79.7	80.4	79.4	73.6							111.9
THET 39. DEG F	1250	81.1	82.3	88.7	82.0	84.6	86.6	86.7	88.7	88.9	86.2	80.9							120.1
(277. DEG K)	1600	80.6	81.6	87.4	81.3	83.4	85.4	86.4	86.9	86.7	83.9	77.1							118.4
MACT 5.12 GM/M3	2000	80.7	82.1	87.9	81.6	83.9	85.4	85.9	85.7	85.2	81.9	76.8							118.1
(.00512 KG/M3)	2500	84.4	89.1	90.4	89.1	89.2	93.9	99.1	97.4	94.4	87.6	82.8							126.9
NFA 5475. RPM	3150	81.6	85.6	92.4	85.6	87.4	90.9	94.4	92.9	91.7	85.3	81.3							124.1
(573. RAD/SEC)	4000	83.1	86.7	94.0	85.8	90.7	95.8	95.3	96.0	93.1	87.9	82.6							125.9
NFK 5561. RPM	5000	80.5	83.8	91.3	85.8	90.4	86.5	91.7	91.5	90.6	84.9	79.2							123.0
(582. RAD/SEC)	6300	80.6	82.6	91.0	85.2	88.8	86.3	90.2	91.0	91.3	85.2	79.5							122.6
NFD 6823. RPM	8000	80.7	81.5	88.0	83.2	84.7	86.7	88.0	89.5	89.3	83.9	77.4							120.3
(924. RAD/SEC)	10000	81.0	81.3	86.6	81.6	83.3	84.3	86.9	89.0	88.6	84.9	77.1							120.0
NO. OF BLADES 15	12500	81.2	81.5	85.9	79.8	82.2	83.0	86.4	88.9	87.6	85.3	78.1							119.2
FAN TIP SPEED	16000	81.5	80.7	81.5	79.8	79.9	81.7	83.3	87.5	84.9	86.2	72.9							117.2
476. FT/SEC	20000	82.0	81.8	80.5	75.4	77.8	79.8	82.3	87.0	84.1	85.6	71.7							117.0
	25000	82.0	84.4	77.9	72.9	76.4	78.3	79.7	86.5	81.8	86.5	69.8							116.0
	31500	82.4	85.1	76.7	72.6	75.2	77.5	78.0	84.9	80.3	85.9	67.9							115.3
	40000	83.5	85.1	74.6	70.0	72.5	74.3	75.9	81.8	77.5	84.9	65.5							113.5
	50000	86.0	87.2	72.5	69.9	69.8	72.4	73.2	77.4	72.8	74.1	65.7							112.9
	63000	76.0	80.5	71.1	70.3	68.6	72.2	69.5	74.8	68.9	72.9	66.9							114.6
	80000	75.5	78.1	72.1	69.9	68.8	71.0	70.2	71.7	69.0	71.7	66.5							110.9
OVERALL MEASURED																			
OVERALL CALCULATED		80.7	78.5	102.2	95.4	97.9	99.7	103.2	103.2	101.4	97.4	91.7							134.1
	PNDB	97.2	89.9	110.1	109.8	111.4	113.2	117.1	116.2	114.5	109.4	104.9							

PAGE 7 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 11 HR. 12.4

MODEL SOUND PRESSURE LEVELS (80. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	5A. (1.92)	6A. (1.92)	7A. (1.92)	8A. (1.92)	9A. (1.92)	10A. (1.92)	11A. (2.05)	12A. (2.24)	13A. (2.42)	14A. (2.62)	15A. (2.79)	0. (1.92)	0. (1.92)	0. (1.92)	0. (1.92)	0. (1.92)	0. (1.92)
	63																	
SIDELINE 200. FT.	81																	
(60.96 M)	100	57.5	58.5	62.2	63.6	64.1	63.2	60.7	60.4	60.3	57.5	63.6						
VEHICLE M-55	120	57.9	57.9	58.1	57.5	62.7	60.2	60.9	57.3	57.7	55.9	64.5						
CONFIG [illegible]	140	57.3	57.4	61.5	60.9	65.2	62.6	62.3	60.9	62.1	62.7	64.8						
LOC SCHENECTADY	200	57.2	57.4	63.4	60.8	64.1	60.7	60.5	58.1	59.7	59.8	66.5						
DATE 1/13/75	220	57.8	57.7	58.8	59.3	59.8	59.7	58.4	58.8	58.3	57.4	63.5						
RUN 47/A	315	57.1	57.4	58.0	58.4	58.8	58.8	58.1	57.9	58.5	57.2	63.2						
TAPE	400	56.9	57.5	58.9	59.1	59.7	59.8	58.2	58.0	58.3	56.8	61.8						
BAR 29.7 HG	500	56.9	57.4	58.4	57.8	58.8	58.4	58.1	57.9	57.9	56.4	60.4						
100295. N/M2)	630	56.8	57.2	57.8	58.2	58.8	58.1	57.7	57.3	57.1	56.2	61.1						
TAMB 43. DEG F	800	56.8	57.2	58.8	58.6	58.4	58.0	58.1	58.1	58.4	56.9	59.8						
(279. DEG K)	1000	56.8	57.2	58.1	58.9	58.7	58.1	58.4	58.4	58.7	57.3	59.7						
TSET 39. DEG F	1260	56.9	56.9	58.8	58.4	61.9	63.8	64.4	63.8	62.6	56.4	48.3						
(277. DEG K)	1600	56.2	58.1	64.4	58.8	60.8	62.1	62.3	61.6	59.5	52.9	42.6						
HACT 5.12 GM/M3	2000	56.8	58.1	64.7	58.4	60.8	61.9	61.4	60.1	57.7	51.3	41.2						
(.00512 KG/M3)	2500	59.5	65.1	72.6	65.3	65.9	70.2	70.6	71.6	66.7	58.9	46.7						
NFA 9475. RPM	3150	58.4	61.4	68.7	62.2	63.9	65.9	69.9	68.7	63.5	53.7	44.3						
(573. RAD/SEC)	4000	57.4	61.8	71.4	62.6	66.7	68.4	70.1	69.3	64.3	54.7	43.8						
NFK 5941. RPM	5000	56.9	58.5	67.6	61.8	64.2	63.9	66.2	64.5	61.4	52.8	42.3						
(582. RAD/SEC)	6300	57.8	58.9	63.9	60.4	63.1	62.3	63.9	63.1	61.6	51.6	38.8						
NFD 6823. RPM	8000	52.6	54.4	61.9	57.3	58.7	60.2	60.4	59.2	57.6	47.9	33.1						
(924. RAD/SEC)	10000	51.1	52.6	59.1	56.4	55.8	58.2	58.3	57.7	54.3	45.4	28.3						
NO. OF BLADES 15	12500	20.7	20.4	56.6	49.3	52.8	54.5	54.6	54.7	49.4	41.8	19.7						
FAN TIP SPEED	16000	24.7	25.7	47.6	42.8	46.6	47.4	47.3	46.6	41.9	35.1	9.7						
476. FT/SEC.	20000	19.5	21.4	42.1	37.8	39.6	41.4	40.9	40.6	33.3	25.1							
	25000	11.5	17.1	32.9	28.3	31.4	31.4	30.5	32.2	20.4	10.2							
	31500		7.1	21.2	18.1	20.3	21.4	18.0	16.1	3.9								
	40000			3.3	2.8	2.8	1.8											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		49.2	52.1	70.3	71.8	73.8	75.2	78.1	76.1	72.6	64.6	56.3						
PNLB		81.9	85.4	92.8	85.4	87.1	89.3	92.3	90.1	86.2	78.2	68.1						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA PROCESSING PROGRAM

PNLT. DATE = MONTH 3 AT 10 HR. 9.9

FULL SCALE SOUND PRESSURE LEVELS (SPL, DB, RE 20 MICRONEWTONS PER SQ. METER)
ANGLES FROM INLET IN DEGREES (ARC RADIANS)

	FREQ.	30° (.52)	50° (.87)	70° (1.22)	90° (1.57)	90° (1.57)	110° (1.92)	130° (2.27)	130° (2.27)	150° (2.62)	170° (2.97)	0° (0.)	0° 110° (1.92)	0° 110° (1.92)	0° 110° (1.92)	0° 110° (1.92)	0° 110° (1.92)	PWL
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. FT)	100	67.3	69.5	73.4	74.1	73.5	74.3	71.7	67.9	70.9	75.2	77.6						108.8
VEHICLE SPEED	125	66.5	67.8	72.7	67.6	71.5	69.3	68.2	70.4	72.7	73.9	75.8						104.9
CONFIG ←33	160	64.8	66.3	65.7	66.9	66.4	68.3	70.2	74.7	73.2	75.4	76.8						104.2
LOC SCHEDULED	200	64.3	65.7	67.2	68.6	69.6	71.8	72.7	73.7	75.4	77.4	78.6						106.5
DATE 1/13/75	250	66.3	68.2	69.7	70.3	70.9	72.8	73.4	73.2	74.2	75.4	76.1						106.2
RUN 4P74	315	67.3	69.5	71.4	72.6	72.5	73.5	73.2	73.9	74.4	76.2	75.8						107.0
TAPE	400	66.6	69.3	70.2	70.9	71.5	72.3	72.9	73.7	75.2	75.2	74.6						106.3
BAR 29.4 IN	500	65.3	67.3	68.2	69.7	70.6	72.3	73.7	73.9	74.2	74.4	73.8						105.8
(99923. N/M2)	630	67.6	69.8	70.9	70.7	73.6	75.8	76.7	76.4	76.4	77.7	76.6						108.8
TAMB 67. DEG F	800	67.6	70.5	72.4	74.2	74.3	76.6	76.9	76.2	76.7	77.4	73.8						109.5
(291. DEG K)	1000	69.8	71.7	73.7	74.9	74.8	77.1	78.4	79.2	80.4	78.9	73.8						110.8
TWET 60. DEG F	1250	74.1	77.5	79.4	81.2	84.1	86.3	88.2	88.4	88.2	85.5	80.8						119.0
(289. DEG K)	1600	72.6	77.0	77.2	81.9	83.1	84.9	86.6	86.4	86.2	82.7	77.8						117.4
HACT 0.09 G/M3	2000	72.6	76.0	78.2	81.8	82.9	84.9	85.9	85.4	84.9	81.0	75.8						116.8
(0.00369 KG/M3)	2500	78.9	81.1	84.1	87.9	91.4	94.8	91.4	93.1	94.2	87.7	81.3						124.8
HFA 5479. HPA	3150	73.9	79.3	81.9	85.3	88.4	91.3	90.3	91.1	91.4	85.0	80.0						122.2
(574. RAD/SEC)	4000	75.5	81.5	82.6	87.8	91.1	91.8	95.7	91.7	91.6	86.7	83.2						124.4
HFX 5544. HPA	5000	74.0	79.0	82.2	85.3	86.1	91.5	92.9	90.9	89.5	83.9	79.4						122.3
(580. RAD/SEC)	6300	72.5	77.3	81.7	84.6	85.2	90.2	90.4	90.2	90.0	84.3	79.5						121.4
HFI 8643. HPA	8000	68.9	74.2	77.7	80.3	83.4	88.9	87.2	88.4	88.1	82.5	77.8						118.8
(924. RAD/SEC)	10000	67.6	73.2	75.9	81.1	83.1	85.9	86.9	87.7	88.0	82.0	77.2						118.4
NO. OF BLADES 15	12500	66.8	71.9	74.7	80.4	81.8	84.6	86.8	87.0	86.4	80.4	75.7						117.7
FAN TIP SPEED	16000	64.1	67.5	71.1	76.8	79.9	81.0	83.1	84.5	84.0	77.5	72.9						114.9
476. FT/SEC	20000	63.2	66.6	70.0	74.3	77.0	79.8	82.0	83.6	83.6	76.8	72.2						114.4
	25000	63.0	66.3	68.6	72.9	75.5	77.7	79.9	81.0	80.7	79.1	70.9						112.8
	31500	63.2	64.1	67.8	72.7	74.3	76.6	78.1	79.4	79.9	74.4	68.8						112.5
	40000	64.0	65.6	67.3	70.3	72.4	74.6	76.0	76.6	77.0	72.7	68.1						111.5
	50000	67.3	67.4	68.9	70.2	73.9	73.6	74.1	73.3	73.4	71.2	67.6						111.7
	63000	69.5	68.2	73.6	70.3	70.6	73.2	71.5	71.6	70.3	71.6	69.9						113.8
	80000	72.8	70.3	72.8	71.8	71.0	73.8	71.6	72.1	70.7	72.6	71.2						116.5
OVERALL MEASURED																		
OVERALL CALCULATED		64.9	69.2	91.7	95.2	97.7	100.5	101.2	100.6	100.7	99.7	91.7						132.3
PNLT		97.9	102.9	105.0	108.8	111.3	113.9	115.2	113.4	114.0	109.0	105.3						

FULL SCALE DATA PRINCIPIA PROGRAM

PNEU. DATE = MONTH 3 AT 10 HR. 9.9

FULL SCALE PRESSURE LEVELS (PSF) AT 70 PERCENT RR , NUM. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		5°. (.09)	9°. (.16)	13°. (.23)	17°. (.30)	21°. (.37)	25°. (.44)	29°. (.51)	33°. (.58)	37°. (.65)	41°. (.72)	45°. (.79)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	47.8	47.3	51.7	57.5	51.9	52.2	49.0	44.1	45.6	47.5	44.2						
VEHICLE SPEED	125	47.4	45.8	49.8	48.7	49.3	48.2	45.4	46.6	47.2	49.1	44.2						
CONFIG 35	160	47.8	43.6	43.8	45.2	45.0	49.1	47.3	46.7	47.6	47.5	46.7						
LOC SCHENECTADY	200	41.5	43.3	45.2	46.1	47.9	49.5	49.7	49.6	49.7	49.3	46.5						
DATE 1/13/75	250	42.9	45.4	47.6	49.2	48.5	50.4	50.4	49.6	48.3	47.1	43.7						
RUN 4???	315	43.0	46.0	47.2	48.7	50.5	51.1	50.0	49.6	48.5	47.7	43.2						
TAPE	400	42.9	46.2	47.9	48.8	49.4	49.8	49.7	49.3	49.1	46.5	41.7						
BAR 29.6 IN	500	43.1	44.4	45.8	47.5	48.3	49.7	50.3	49.4	47.9	45.9	40.7						
(999.23 MB)	630	43.8	46.0	48.5	50.4	51.2	52.1	53.2	51.8	52.0	48.7	41.1						
TAMB 47. DEG F	800	43.6	47.4	49.9	51.8	51.9	53.7	53.3	53.4	52.1	48.2	40.0						
(281. DEG K)	1000	44.5	48.5	51.0	52.4	52.2	54.1	54.7	54.2	53.7	49.4	39.7						
TWET 44. DEG F	1250	47.9	54.2	56.6	57.6	61.4	63.2	64.3	63.3	61.2	55.7	46.0						
(280. DEG K)	1600	49.2	53.5	56.2	57.5	60.3	61.0	62.6	61.1	59.0	52.0	42.5						
MACT 0.69 GM/M3	2000	47.7	53.1	55.0	56.9	59.4	61.4	61.6	59.8	57.4	50.5	40.2						
(0.0009 LB/F3)	2500	51.5	57.1	60.8	62.7	66.2	70.9	66.9	67.3	66.4	56.9	45.2						
WFA 5??. MPH	3150	43.6	55.1	59.2	61.9	64.9	67.4	65.5	64.9	63.2	53.6	43.1						
(57. MAC/SEC)	4000	49.8	56.8	58.7	64.0	67.2	67.4	70.5	65.0	62.7	54.5	45.0						
WFK 55.4. MPH	5000	48.0	54.3	57.9	61.3	61.9	66.5	67.4	63.9	60.3	51.2	40.5						
(56. MAC/SEC)	6300	45.7	51.5	56.6	59.9	61.3	64.0	64.1	62.3	59.7	50.2	38.5						
WFC 8123. MPH	8000	42.6	47.3	51.5	56.5	57.4	60.3	59.6	59.1	56.1	48.2	33.3						
(9.4. MAC/SEC)	10000	37.7	44.7	48.3	53.5	55.7	57.8	57.6	56.4	53.6	42.7	28.8						
NO. OF BLADES 15	12500	34.3	41.3	44.8	50.9	52.1	54.4	55.8	52.8	48.7	38.6	20.3						
FAN TIP SPEED	16000	27.2	32.7	37.5	42.9	45.6	46.7	47.1	45.7	40.8	28.4	0.7						
470. FT/SEC	20000	20.8	26.6	31.5	37.3	38.9	40.8	40.6	38.6	32.8	18.1							
	25000	12.4	19.1	23.2	28.2	30.9	31.3	30.8	27.1	19.4	0.7							
	31500	0.6	8.1	12.2	18.1	19.3	19.9	17.6	12.7	3.0								
	40000				1.0	2.4	2.1											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		59.3	64.7	67.7	71.2	73.7	76.0	75.7	73.6	71.7	64.2	50.2						
PNdB		72.4	78.4	81.4	85.1	87.5	90.0	90.1	87.3	85.8	77.7	67.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PNLC. RATE = MONTH 3 AY 10 HR. 10.0

MODEL SOUND PRESSURE LEVELS (DB RE. 2E-5 NEWTONS/SQ. METER) AT 70 PERCENT OF MAX. DAY
ANGLES FROM INLET IN DEGREES (ALL RADIANS)

		50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.	PWL
FAN	(1.022)	(1.07)	(1.05)	(1.03)	(1.01)	(1.00)	(2.06)	(1.24)	(2.42)	(2.60)	(2.78)	(0.)	0.	110.	110.	110.	110.	110.	
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. FT)	100	70.3	72.5	71.2	73.1	75.5	78.6	74.7	73.7	73.4	77.4	80.8							108.7
VEHICLE RODS	125	68.3	70.3	72.4	71.1	73.5	74.5	72.2	74.2	75.6	78.2	80.3							108.0
CRAFTS	160	67.3	69.3	69.7	71.1	73.5	72.3	73.4	74.9	76.9	79.4	80.6							108.1
LOC SIMULATOR	200	67.3	68.2	69.2	71.1	72.8	75.0	75.4	77.2	78.4	81.2	82.8							109.8
DATE 1/13/75	250	69.3	72.2	72.9	74.1	74.9	75.8	76.4	76.4	78.2	79.2	80.3							109.7
RUN 4/5	315	71.3	73.5	74.7	76.1	75.3	77.5	76.9	78.9	78.4	80.2	81.3							110.8
TAPE	400	69.6	72.2	72.7	77.6	74.5	75.5	75.9	76.7	78.2	78.9	78.6							109.4
BAR 29.6 IN	500	69.3	70.3	71.2	72.9	73.3	75.3	76.9	76.9	77.4	78.2	77.3							108.9
(99923. N/M2)	630	70.1	72.3	73.4	75.7	75.1	77.8	79.2	79.9	80.9	80.2	77.8							111.0
TAT 44. DEG F	800	71.1	73.3	74.7	76.4	76.5	78.8	79.9	81.2	81.4	79.7	77.3							112.1
(280. DEG K)	1000	71.6	74.2	75.9	77.2	77.5	79.1	81.2	81.7	82.7	79.7	76.8							112.9
TAT 62. DEG F	1250.	72.9	77.8	78.4	79.5	81.6	83.6	85.2	85.9	85.9	81.7	78.1							116.5
(279. DEG K)	1600	71.6	67.3	65.2	59.4	59.1	90.9	91.6	94.2	92.7	88.7	81.6							124.1
HACT 0.45 KG/M3	2000	76.4	81.3	81.7	84.3	85.3	88.1	89.4	89.1	87.9	83.0	79.3							120.0
(.00566 KG/M3)	2500	75.4	82.8	82.6	87.6	87.4	89.4	90.6	90.6	91.2	84.5	80.6							121.7
NFA 6250. RPM	3150	81.1	85.6	87.1	91.5	92.7	96.1	95.8	99.1	96.4	91.7	87.8							128.0
(655. RAD/SEC)	4000	77.0	82.5	84.4	87.8	91.5	92.8	93.7	93.5	92.8	87.2	83.0							124.7
NFK 6352. RPM	5000	78.5	87.8	89.2	90.3	98.6	96.7	95.4	98.2	97.0	90.6	86.4							129.6
(655. RAD/SEC)	6300	76.3	83.8	86.4	91.1	92.4	98.0	93.9	96.5	93.8	88.8	83.7							128.0
NFT 6543. RPM	8000	73.4	79.4	85.7	90.4	92.6	91.4	93.4	92.8	91.9	86.3	81.8							124.1
(684. RAD/SEC)	10000	72.1	78.2	81.4	86.6	87.9	90.7	92.4	93.9	92.5	85.5	81.0							124.6
NO. OF BLADES 15	12500	73.6	75.6	80.7	84.1	87.0	89.8	92.5	92.0	90.2	83.9	78.5							122.8
FAN TIP SPEED	16000	67.6	72.8	75.8	79.5	83.2	86.2	88.1	89.3	87.7	81.2	76.9							119.5
566. FT/SEC	20000	65.7	70.6	74.5	79.9	82.0	84.6	87.5	88.9	87.2	80.5	75.7							119.2
	25000	65.2	69.3	73.1	77.4	80.1	82.7	84.9	86.2	84.7	78.8	73.7							117.4
	31500	64.7	65.6	72.0	76.9	79.3	81.8	83.8	85.2	84.1	77.9	71.6							117.5
	40000	64.7	67.1	73.5	74.5	76.3	79.3	81.4	82.3	81.8	75.7	67.8							116.1
	50000	67.6	67.9	70.2	72.3	73.1	76.4	77.9	78.1	77.0	73.8	68.6							114.8
	63000	69.3	68.3	70.6	71.3	70.7	73.5	73.5	73.1	71.6	71.9	69.6							114.4
	80000	71.9	70.7	71.4	71.5	70.8	72.8	72.0	72.0	70.8	72.3	70.8							116.4
OVERALL MEASURED																			
OVERALL CALCULATED		53.7	63.9	95.7	100.4	102.4	104.1	103.8	105.3	103.5	98.9	95.3							130.1
PNDB		102.4	107.3	109.2	114.1	116.4	117.5	116.5	116.7	117.1	112.7	109.2							

PAGE 3 FULL SCALE DATA PREDICTION PROGRAM PROG. DATE = MONTH 3 AT 10 HR. 10.0

PUBEL SOUND PRESSURE LEVELS (59. DB, F= 70 PERCENT RE . NUM. DATA

FREQUENCIES FOR BULLET IN DEGREES (AHP RADIANS)

FREQ	50. (1.02)	60. (1.13)	70. (1.09)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
30																	
63																	
80																	
100	47.2	50.3	49.4	51.0	53.9	54.0	52.0	49.9	48.1	49.8	49.4						
125	45.1	47.2	50.6	49.5	51.8	50.4	49.4	50.3	50.5	50.4	48.7						
160	44.1	46.3	47.8	49.1	49.9	50.1	50.6	50.9	51.3	51.5	48.7						
200	44.3	45.5	47.2	49.3	50.9	52.7	52.5	53.1	52.7	53.1	50.5						
250	46.4	49.4	50.8	52.2	52.1	53.4	53.4	52.2	52.3	50.9	48.9						
315	47.3	50.5	52.5	54.2	53.7	55.0	53.8	52.6	52.5	51.7	47.7						
400	45.9	49.2	50.4	51.3	51.9	53.9	52.7	52.3	52.1	50.3	45.7						
500	44.6	47.4	48.8	50.9	51.1	52.7	53.6	52.4	51.2	49.4	44.2						
630	43.3	48.3	51.8	53.4	53.7	56.1	55.7	55.3	54.5	51.2	44.4						
800	47.1	50.2	52.1	54.1	54.4	56.0	56.3	56.4	54.9	50.4	43.5						
1000	47.5	51.2	53.2	54.7	55.0	56.1	57.4	56.7	55.9	50.2	42.4						
1250	48.6	54.4	55.6	56.0	59.9	60.5	61.3	60.8	59.8	51.9	43.5						
1600	57.2	63.5	62.2	67.9	67.3	67.6	67.6	66.8	65.5	56.5	46.5						
2000	51.7	57.6	56.0	61.3	62.3	64.0	65.1	63.6	60.4	52.5	43.7						
2500	50.5	54.9	59.0	62.4	64.2	65.7	66.1	64.8	63.4	53.7	44.4						
3150	55.9	61.2	63.5	68.2	69.2	72.1	70.8	72.9	68.2	60.3	50.8						
4000	51.3	57.8	66.7	68.1	67.7	68.4	68.5	66.8	64.6	55.8	44.8						
5000	52.5	62.3	64.9	71.2	74.4	74.1	69.9	71.2	67.8	57.9	47.5						
6300	49.7	54.3	61.4	66.4	67.5	70.0	67.6	66.5	62.7	52.7	42.7						
8000	45.3	52.5	59.0	63.7	63.6	64.8	65.9	63.6	59.6	50.0	37.6						
10000	42.2	49.7	53.8	59.3	61.4	62.0	63.1	62.6	58.1	46.2	32.2						
12500	33.1	44.7	50.8	54.6	57.3	59.4	60.7	57.8	52.4	40.1	22.1						
16000	30.7	37.2	42.2	47.4	49.7	52.0	52.1	50.4	44.3	34.1	10.7						
20000	23.2	30.6	36.0	40.1	43.9	45.3	46.1	43.9	36.6	19.8							
25000	14.7	22.3	27.7	32.7	35.1	38.3	38.7	32.4	23.4	4.5							
31500	2.3	10.6	16.4	22.3	24.3	24.9	23.3	16.4	7.3								
40000				5.2	8.4	8.8	4.0										
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.3	69.5	71.4	76.3	78.1	79.2	77.7	78.0	74.6	67.0	59.8						
PASS	77.1	82.8	85.2	90.3	92.4	93.1	91.8	92.4	88.7	81.2	72.2						

SIDELINE 200. FT.

VEHICLE ACFS

CODE 33

LOC SCHENECTADY

DATE 1/13/75

RUN ACFS

TAPE

BAR 29.6 IN

(999.23. MB)

TAMB 46. DEG F

(279. DEG K)

HACT 0.46 GM/M3

(0.00046 GM/M3)

WFA 6259. RPM

(655. RAD/SEC)

NFK 6392. RPM

(669. RAD/SEC)

NFS 8523. RPM

(924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED

540. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

NOISE SOURCE EXPANDED LEVELS 154. DEG. TO 70 PERCENT RE . NUM. DATA
PROG. DATE = MONTH 3 AY 10 HR. 10.0
ANGLES FROM INLET TO DEGREES (AND RADIANS)

FREQ.	11.2(1.)	12.0(1.)	12.8(1.)	13.6(1.)	14.4(1.)	15.2(1.)	16.0(1.)	116.	120.	124.	128.	132.	136.	140.	144.	148.	152.	156.	(0.)	0.	0.	0.	0.	0.	0.	PWL
50																										
63																										
80																										
100	67.0	72.8	73.7	73.4	72.5	73.8	73.2	73.4	77.2	82.2	85.6															110.5
125	73.0	73.3	73.7	74.5	75.8	77.0	78.4	77.4	79.5	82.2	84.0															112.9
160	71.5	72.5	72.4	73.9	73.5	74.5	76.4	74.2	80.7	83.4	84.8															111.7
200	70.3	71.7	72.4	74.1	75.3	77.0	78.2	76.4	81.7	84.4	86.1															113.0
250	72.7	74.2	75.2	77.5	77.5	78.3	79.7	75.9	81.4	83.3	84.8															113.3
315	74.0	76.0	77.2	78.4	78.3	80.0	79.9	80.7	82.2	83.3	84.6															113.9
400	72.7	74.7	75.4	76.5	77.3	77.0	78.9	79.9	81.2	82.4	82.8															112.5
500	71.3	72.3	73.7	75.9	76.1	77.8	79.7	79.9	80.7	81.2	81.3															111.9
630	72.5	73.3	74.4	76.4	78.4	79.3	81.3	82.2	82.7	83.4	83.7	81.8														114.5
800	72.9	75.3	77.2	78.2	77.8	81.0	82.7	83.7	83.7	82.7	81.3	79.8														114.9
1000	74.1	76.2	77.4	78.7	79.8	81.8	83.7	83.9	84.6	82.2	79.8	77.5														115.3
1250	74.9	77.8	79.7	81.3	82.5	85.1	85.9	86.4	86.6	82.7	80.8	78.4														117.5
1600	70.4	64.3	87.2	90.8	91.5	94.9	94.4	93.4	93.7	89.5	84.8	82.3														125.8
2000	81.1	83.6	87.9	90.0	91.7	94.9	95.1	93.9	93.7	89.0	84.6	82.3														126.0
2500	79.1	83.3	85.4	87.5	89.9	92.1	94.1	93.1	92.2	88.5	82.3	80.0														124.2
3150	80.4	83.8	87.4	87.1	88.2	95.5	102.6	104.1	99.7	92.5	88.0	82.2														132.0
4000	85.3	90.2	92.3	97.3	95.9	98.6	102.5	105.5	98.6	92.7	88.0	82.7														133.0
5000	85.3	84.3	86.7	101.3	104.1	100.3	100.7	100.2	97.6	91.4	88.7	82.0														132.1
6300	79.3	86.5	89.4	93.4	94.7	97.5	98.7	97.6	94.8	89.9	86.0	80.0														128.9
8000	77.3	83.3	86.5	91.9	92.7	97.9	97.5	96.7	93.7	88.8	84.6	80.3														128.1
10000	76.7	83.3	87.2	91.4	92.5	96.7	96.3	96.7	93.8	88.4	84.3	80.3														127.5
12500	75.2	80.5	84.9	89.5	91.1	93.1	94.4	95.1	92.4	87.5	82.3	79.8														125.7
16000	71.7	75.9	81.4	85.4	87.8	90.3	92.5	93.6	92.3	86.6	79.8	79.6														123.6
20000	73.0	75.5	80.1	84.3	86.2	89.2	91.7	93.3	90.8	84.7	79.6	79.5														123.5
25000	69.2	73.9	78.5	82.8	84.5	87.6	89.8	91.4	88.9	83.8	77.7	79.3														122.3
31500	69.2	73.1	77.3	82.4	83.5	86.3	88.3	89.6	87.8	82.1	75.3	79.2														121.9
40000	66.9	71.7	76.4	79.9	80.9	83.7	85.6	85.7	84.1	79.1	70.2	78.9														120.0
50000	61.2	69.3	72.8	75.9	77.5	80.5	82.5	81.9	79.8	76.6	68.7	78.6														118.5
63000	69.8	68.8	70.9	72.4	72.7	76.0	76.3	75.6	74.4	73.2	69.2	78.4														118.6
80000	72.4	71.3	72.0	71.3	71.0	73.2	73.1	73.1	70.9	72.4	70.9	78.4														118.9
OVERALL MEASURED																										
OVERALL CALCULATED	92.8	98.7	101.2	105.7	106.7	107.0	109.2	110.8	105.7	101.4	98.5															140.4
PWL	106.5	112.9	115.2	119.6	120.9	119.0	122.4	124.4	118.4	114.7	111.5															

ORIGINAL PAGE IS
OF POOR QUALITY

PNLC, DATE = MONTH 3 AY 10 HR. 10.0

NUPEL SOUND PWR SOUPL LEVELS 159. WEB. FO 7C PERCENT RE . MON. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	50. (1.05)	60. (1.19)	70. (1.35)	80. (1.57)	90. (1.71)	100. (1.89)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.63)	150. (2.79)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	44.8	50.3	51.3	51.8	53.4	51.7	50.5	49.6	51.3	54.5	54.2						
125	49.9	56.7	57.8	57.3	54.1	55.7	52.7	53.6	54.5	54.4	53.0						
160	47.3	56.1	58.5	58.2	52.3	52.3	53.6	54.2	55.1	55.5	53.0						
200	45.7	49.3	50.4	52.3	51.5	55.4	55.2	56.3	54.7	54.3	54.0						
250	49.4	51.7	54.1	55.7	55.5	54.4	54.6	55.7	55.6	55.0	52.5						
315	56.5	53.3	55.0	56.4	56.3	57.0	56.8	56.4	56.2	55.5	52.0						
400	49.2	52.3	53.2	54.6	54.9	55.5	55.7	55.5	55.1	53.0	49.7						
500	47.6	49.9	51.3	53.1	53.8	55.2	56.3	55.4	54.4	52.4	48.2						
630	48.8	52.3	54.0	56.2	57.0	56.6	58.7	58.0	57.0	54.7	48.1						
800	49.9	52.7	54.6	56.3	57.4	58.7	59.1	58.9	57.1	53.4	47.5						
1000	51.0	53.3	55.7	57.2	57.2	58.8	58.9	58.8	58.2	52.7	45.7						
1250	52.6	54.4	56.8	58.4	58.9	62.8	62.0	61.3	60.0	52.9	46.3						
1600	55.9	61.3	64.2	64.5	68.6	71.8	70.3	68.1	66.5	59.4	49.8						
2000	55.5	61.3	64.7	69.1	68.6	71.4	70.9	68.3	66.2	58.5	49.0						
2500	53.2	59.4	62.0	65.7	66.7	68.5	69.6	67.3	64.4	56.7	48.2						
3150	60.1	65.5	68.7	73.7	71.4	71.7	77.8	75.9	69.5	61.1	51.1						
4000	59.6	65.3	68.2	73.5	72.8	77.2	77.2	76.8	67.5	60.5	50.5						
5000	59.5	69.5	72.4	77.7	79.9	79.8	75.2	73.2	68.3	58.7	49.8						
6300	57.8	68.5	64.4	68.6	69.9	72.1	72.4	69.8	64.5	58.7	45.8						
8000	49.5	55.1	62.3	66.8	66.7	71.4	69.9	67.4	61.7	52.5	40.3						
10000	45.9	55.3	59.8	64.1	65.8	68.6	67.0	65.4	59.5	49.8	35.5						
12500	42.5	49.5	54.9	59.9	51.4	62.7	62.5	60.9	55.8	43.7	28.9						
16000	35.1	42.1	47.5	52.2	54.5	56.1	56.5	54.8	48.9	33.5	13.8						
20000	28.1	35.5	41.7	46.3	49.3	50.8	50.3	48.3	40.8	24.8							
25000	18.6	26.5	33.1	38.2	39.5	41.4	40.7	37.8	27.6	0.0							
31500	5.8	15.0	21.7	27.5	28.5	29.4	27.8	22.9	11.8								
40000			4.0	9.5	11.9	11.2	8.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	67.2	73.8	76.8	81.6	82.3	81.7	83.4	83.8	76.2	69.8	63.4						
PNLW	61.2	68.2	91.1	95.7	96.9	95.3	97.4	96.1	90.8	83.2	74.5						

PAGE 1 FULL SCALE DATA RETRIEVAL PROGRAM

PHASE DATE = MONTH 3 AT 10 HR. 18.8

OVERALL SOUND PRESSURE LEVELS 150. DB, PF 70 PERCENT OF MAX. DAY)

AZIMUTH ANGLE IN DEGREES (AND RADIANS)

FREQ	58. (1.02)	68. (1.19)	78. (1.36)	88. (1.53)	98. (1.71)	108. (1.88)	118. (2.06)	128. (2.24)	138. (2.42)	148. (2.60)	158. (2.78)	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. FT) 100	73.9	73.2	73.9	74.1	75.9	78.5	78.7	78.6	81.4	84.9	88.6							113.1
VEHICLE 125	73.8	75.7	77.7	77.1	79.8	79.5	78.7	80.9	82.4	84.9	84.1							114.5
CONFIG 160	73.3	75.7	75.4	77.9	77.3	75.2	79.9	81.6	84.4	86.9	88.6							115.2
LOC SEMI-SECRETARY 200	72.9	75.2	75.2	77.9	79.5	81.5	81.7	83.4	85.2	87.9	89.8							116.4
DATE 1/13/75 250	73.5	77.7	79.2	81.1	82.8	82.2	83.4	84.1	85.4	87.4	88.0							116.9
R.U. 4777 315	77.3	78.3	80.7	81.4	81.5	82.7	83.4	84.1	85.2	87.4	88.1							117.2
TAPE 400	73.8	77.7	78.2	79.9	80.0	81.5	82.4	83.4	84.7	86.2	86.6							118.0
BAR 29.6 IN 500	74.3	76.2	78.7	79.2	79.5	81.0	83.2	83.4	83.7	85.4	85.3							119.3
(99923. PA) 630	75.3	77.7	78.7	81.2	82.1	84.3	84.9	85.4	86.4	86.0	84.8							117.3
TAMB 45. DEG F 800	76.6	78.9	80.2	81.9	82.3	84.5	85.4	86.9	86.4	85.2	84.0							117.7
(285. DEG K) 1000	76.4	79.2	80.7	82.2	82.5	84.5	86.1	87.1	86.9	84.7	82.8							117.9
T.CT 31. DEG F 1250	77.6	80.2	81.7	82.5	84.4	87.3	86.4	86.9	86.2	85.2	83.3							119.7
(270. DEG K) 1600	79.6	80.5	82.2	83.5	86.9	90.6	91.1	91.4	90.9	85.5	83.1							122.6
HACT 5.01 IN/REV 2000	86.9	91.3	94.2	97.6	96.4	99.1	101.1	100.9	99.2	93.9	89.3							131.5
(.0301 M/REV) 2500	91.5	95.9	99.2	99.3	99.2	95.6	96.6	95.6	93.4	89.0	85.3							127.0
WFA 7817. WPS 3150	91.6	88.8	86.9	95.3	94.7	96.8	96.3	97.1	94.4	89.5	85.8							127.6
(810. MPH/SEC) 4000	89.3	92.5	95.1	96.6	101.4	105.3	105.8	106.7	97.9	94.5	91.7							130.6
WFA 7650. WPS 5000	83.5	88.9	91.5	95.9	99.4	98.2	100.9	101.2	98.3	91.9	87.2							131.2
(830. MPH/SEC) 6300	93.1	95.0	97.5	100.9	104.7	102.7	105.2	106.8	100.8	96.9	91.8							130.8
WFA 8223. WPS 8000	81.2	88.7	93.7	95.7	98.4	100.1	102.5	101.7	95.7	91.3	87.6							131.9
(824. MPH/SEC) 10000	83.7	86.5	91.5	95.5	96.2	99.5	101.8	100.5	94.3	91.9	87.1							131.4
NO. OF BLADES 15 12500	83.2	85.9	89.6	93.5	96.1	97.8	100.6	101.8	95.5	90.5	85.8							131.1
TIP SPEED 16000	76.5	82.4	86.7	91.2	93.3	97.3	97.2	98.1	94.1	88.1	84.3							128.8
682. FT/SEC 20000	75.4	81.4	85.2	89.1	91.7	94.5	96.7	98.0	93.8	87.9	83.8							128.2
25000	74.3	80.5	82.8	87.9	90.8	93.3	95.6	96.4	92.5	87.5	81.9							127.5
31500	73.2	79.6	81.6	87.2	88.8	92.8	93.9	94.9	91.8	86.4	79.4							127.2
40000	71.3	77.9	79.3	84.1	85.6	88.8	90.7	90.8	88.3	83.0	73.8							125.8
50000	70.1	77.3	76.5	80.1	83.5	85.8	87.7	87.3	84.3	80.1	71.1							124.7
63000	69.9	77.8	72.5	74.5	80.5	83.3	83.1	82.9	77.5	75.2	70.5							122.9
80000	71.9	78.2	71.9	71.8	79.7	81.9	81.1	81.3	72.9	72.8	71.1							120.6
OVERALL MEASURED																		
OVERALL CALCULATED	95.9	1.0.7	103.1	106.5	109.1	110.7	112.4	113.6	107.9	103.9	101.4							143.3
PNLT	109.7	113.9	116.0	116.2	121.9	124.1	125.1	126.9	120.3	116.8	114.2							

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA PREDICTION PROGRAM PROG. DATE = MONTH 3 AT 18 HR. 10.0

MODEL SOUND PRESSURE LEVELS (DB, RE. P= 20 MICRO PA) AT MIN. DAT
ANGLES FROM INLET IN DEGREES (ARC RADIANS)

FREQ.	50. (1.02)	60. (1.19)	70. (1.36)	80. (1.53)	90. (1.71)	100. (1.88)	110. (2.06)	120. (2.24)	130. (2.42)	140. (2.60)	150. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SPECTRUM 2000. FT. 80																	
(9000. RPM) 100	49.6	50.9	52.2	52.6	53.4	54.5	54.8	52.9	55.1	57.3	57.2						
VEHICLE NAME 125	50.6	53.5	55.4	56.5	57.3	58.4	55.9	57.0	57.8	57.1	56.5						
CONFIG 150	49.8	53.3	53.5	55.2	55.2	56.1	57.1	57.7	58.9	56.8	56.7						
LOC SCHEDULE 200	49.9	52.7	53.2	56.1	57.1	59.2	56.7	59.3	59.5	58.8	57.7						
DATE 1/13/75 250	52.4	55.1	57.1	58.2	58.8	59.4	60.4	59.9	59.8	59.1	58.2						
RUN 4177 315	54.3	56.3	54.5	59.1	59.5	60.3	60.3	59.8	59.2	59.0	58.5						
TAPE 400	52.2	54.9	55.9	57.9	57.9	58.4	59.2	59.0	58.6	57.8	53.7						
DAT 500	53.9	52.3	54.3	56.2	56.1	57.4	57.8	57.9	57.4	56.6	52.2						
(99923. [illegible]) 630	52.0	54.7	56.2	56.9	57.7	61.5	61.4	60.7	60.0	54.9	51.4						
TAPE 800 SEC F 800	52.8	55.3	57.0	57.5	59.9	61.7	61.8	62.1	59.8	55.9	50.9						
(2000 [illegible]) 1000	52.5	55.7	58.1	59.7	60.2	61.4	62.4	62.2	60.2	55.2	48.7						
T.E. 400 SEC F 1250	53.4	56.3	59.4	60.9	62.1	64.2	64.5	63.7	61.9	55.4	46.8						
(2700 RPM) 1600	54.9	58.9	62.2	64.7	66.3	67.4	67.1	66.8	63.7	55.4	44.8						
MACH 0.81 (1215 FT/SEC) 2000	62.8	67.3	71.4	72.1	73.3	75.6	76.8	75.3	71.7	62.5	53.7						
(4200 RPM) 2500	56.7	62.8	65.4	67.2	69.9	71.9	72.1	69.8	65.7	57.2	49.2						
NFA 2417. RPM 3150	56.4	62.5	65.2	66.4	71.2	72.9	71.5	70.0	66.2	58.1	46.8						
(4100 FT/SEC) 4000	63.6	67.8	71.3	72.3	77.5	80.9	80.5	82.9	69.6	62.2	53.5						
NFB 7965. RPM 5040	57.5	64.3	67.2	71.7	74.2	73.9	75.4	74.1	67.1	59.2	48.3						
(8300 FT/SEC) 5300	62.2	69.3	72.4	76.2	79.9	77.4	78.9	80.6	70.5	62.7	50.7						
NFC 6465. RPM 8250	53.1	61.8	64.6	69.5	73.4	73.6	74.9	72.4	63.7	56.9	43.4						
(9240 FT/SEC) 11000	58.8	58.3	63.8	67.1	69.7	71.4	72.5	69.2	62.8	52.5	38.3						
NO. OF BLADES 19 12500	57.7	55.3	59.7	64.9	66.4	67.2	66.8	67.7	57.8	46.7	36.5						
FAN TIP SPEED 16000	59.6	57.6	53.1	58.9	63.3	63.1	61.3	56.3	50.7	37.9	19.1						
682. FT/SEC 20000	32.9	41.5	40.7	51.2	53.5	55.2	55.3	53.8	43.8	27.3	3.2						
25000	23.4	33.2	37.4	43.2	45.1	46.9	46.5	42.6	31.1	13.2							
31500	18.9	21.5	26.2	32.6	33.8	35.9	33.3	28.2	15.8								
40000		3.3	8.6	14.7	15.7	16.4	13.3	4.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	70.8	75.4	78.3	81.7	84.2	85.2	85.8	85.9	78.8	71.8	66.5						
PNLW	84.2	88.9	91.9	95.3	97.8	99.8	99.8	100.3	91.3	84.9	77.8						

PAGE 1 FULL SCALE DATA [illegible] PAGE

[illegible] 3 AT 10 MPH, 10.0

[illegible] (59. MPH, 70 PERCENT [illegible] MPH, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	0.	0.	0.	0.	0.	0.	PWL
														0.	10g.	30g.	50g.	70g.	
	63																		
RADIAL 17. FT.	80																		
(30. [illegible]	100	67.8	72.3	73.4	74.1	74.8	77.7	77.2	71.9	68.7	65.2	69.1							113.4
VEHICLE [illegible]	125	73.3	76.7	77.1	77.3	77.3	78.9	78.7	66.4	67.4	64.9	67.8							114.5
CONTROL ← 33	160	73.3	75.3	75.7	76.9	77.3	78.2	79.9	61.6	63.5	66.4	68.8							115.1
LOC SPECTACTIV	200	72.3	75.2	76.9	77.5	78.5	81.4	61.4	63.1	65.4	67.7	69.8							116.2
DATE 1/13/75	250	75.3	79.2	79.1	80.4	80.3	82.5	83.9	64.4	66.2	67.9	68.3							117.1
RUN [illegible]	315	77.1	78.4	80.2	81.4	81.5	82.5	83.2	63.9	65.7	67.2	67.4							117.1
TAPE	400	75.3	77.4	79.4	79.1	80.9	81.2	82.4	63.8	64.9	66.2	66.8							116.6
BAR 29.6 IN	500	74.1	75.7	76.7	77.4	79.3	81.0	82.7	63.4	64.2	64.9	65.3							115.2
[illegible]	630	77.6	78.3	79.2	80.9	81.6	84.0	85.2	65.4	66.4	64.2	65.1							117.3
TEMP [illegible]	800	78.6	78.8	80.2	81.9	82.3	84.5	85.9	66.8	66.4	65.9	64.6							117.6
[illegible] SEC FT	1000	76.4	79.2	80.9	82.2	82.9	84.8	85.6	67.1	66.9	64.4	63.1							117.9
T.C. [illegible]	1250	77.1	80.2	81.9	83.9	84.5	87.3	87.9	64.9	68.7	65.8	63.3							119.6
[illegible]	1600	79.1	83.7	85.4	87.9	88.3	90.9	90.9	91.6	90.9	65.7	62.8							122.6
MACH 5.01 [illegible]	2000	86.9	91.3	93.9	96.2	96.9	99.1	101.1	101.4	99.2	92.5	89.8							131.6
[illegible]	2500	91.5	96.8	99.2	99.1	99.2	99.4	98.9	95.6	93.4	64.5	64.6							130.9
NFA [illegible]	3150	91.1	96.5	99.4	99.5	98.4	98.3	98.6	96.8	94.7	89.5	85.8							127.7
[illegible]	4000	87.5	92.5	96.1	98.3	101.9	103.8	104.8	103.8	98.4	94.5	92.8							130.6
NFK [illegible]	5000	84.3	88.3	92.8	95.5	97.9	99.7	103.9	104.9	98.1	91.9	87.2							131.1
[illegible]	6300	91.1	95.2	98.7	101.4	104.2	102.5	100.2	97.5	100.8	95.4	91.5							130.7
NFS [illegible]	8000	91.7	96.2	98.2	99.7	98.7	100.1	102.8	101.2	95.7	91.8	87.4							131.6
[illegible]	10000	85.2	88.5	91.8	95.5	95.8	99.8	100.5	100.5	95.6	91.9	87.1							130.9
WC. OF WHEELS 15	12500	79.7	85.7	89.6	94.3	96.1	97.1	100.1	101.8	95.8	91.8	85.8							130.9
FAN TIP SPEED	16000	75.5	82.1	86.7	91.2	93.1	99.3	98.9	97.9	93.6	88.3	84.8							128.3
682. FT/SEC	20000	72.4	83.7	85.4	89.1	92.2	94.5	96.4	97.8	94.1	87.9	83.8							128.1
	25000	74.8	80.3	83.3	88.1	93.0	92.8	94.9	96.4	93.2	87.3	82.2							127.3
	31500	73.2	79.6	82.8	86.9	88.5	91.8	93.4	94.4	92.1	86.4	79.8							126.6
	40000	71.3	77.7	79.3	83.9	85.2	89.1	93.7	94.8	88.8	83.5	72.9							125.1
	50000	70.1	77.4	76.5	79.3	83.3	85.6	87.7	87.1	84.3	80.1	78.6							123.8
	63000	69.9	77.8	72.5	74.2	80.3	83.8	82.8	82.4	77.7	75.9	78.8							122.2
	80000	72.4	78.5	71.9	72.5	79.4	81.9	81.3	81.5	72.6	73.1	78.8							120.1
OVERALL MEASURED																			
OVERALL CALCULATED		85.9	1[illegible]0.3	163.8	166.2	139.8	116.7	112.2	113.7	107.9	103.9	101.4							143.3
	PWL	139.6	1[illegible]3.8	1[illegible]6.9	118.8	121.7	124.3	124.5	127.8	128.2	118.6	114.3							

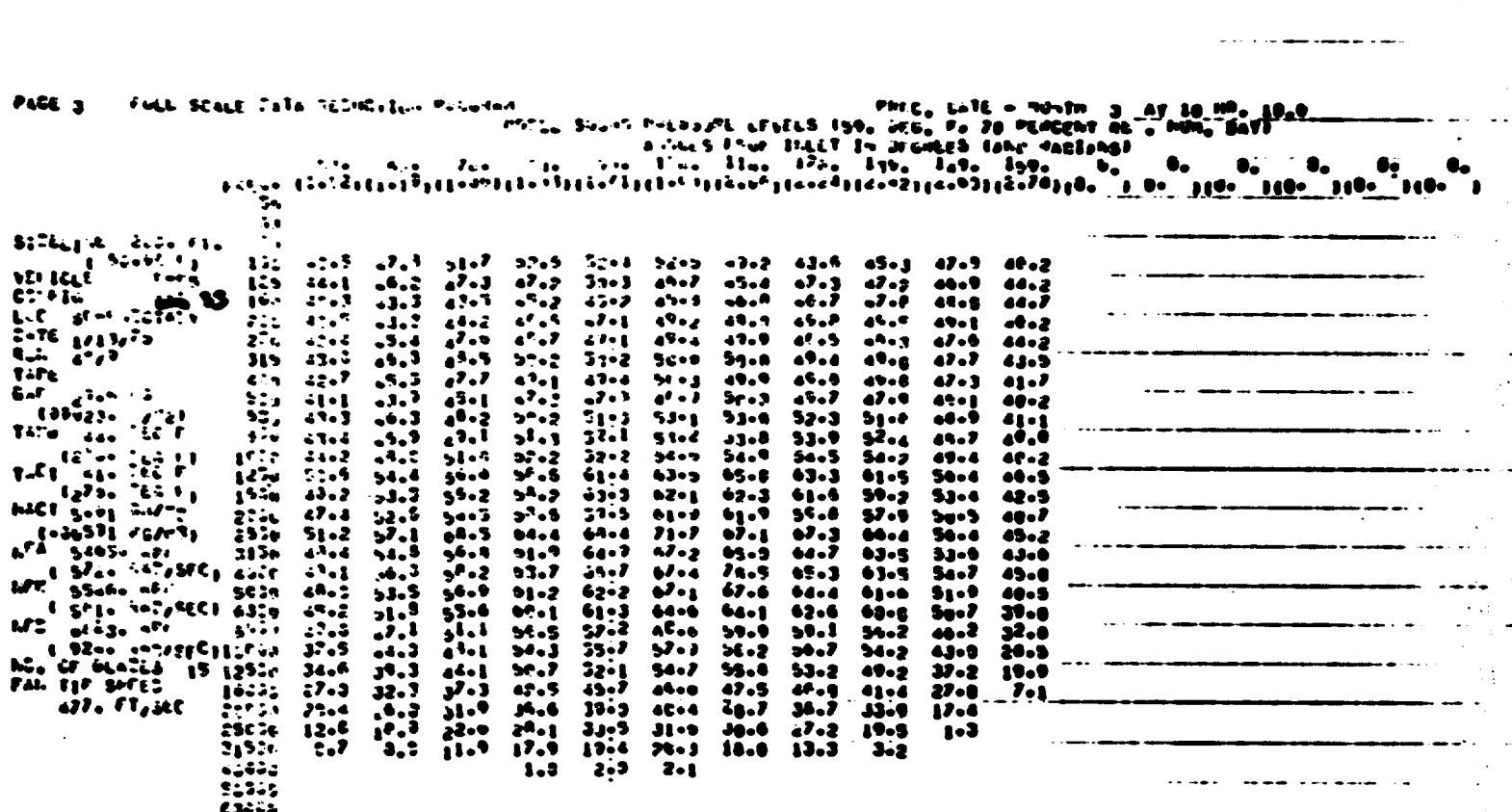
PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 AT 10 HR. 10.0

RUTEL SUCTION PRESSURE LEVELS (90. DEG. F. 70 PERCENT RE . NUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PAGE	70. (1.22)	80. (1.39)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	0.	0.	0.	0.	0.	0.
20															
63															
93															
120	46.7	53.7	51.7	52.8	53.1	54.7	54.5	53.1	55.3	57.5	57.7				
173	51.1	54.4	54.1	56.2	57.3	56.4	55.9	54.5	57.8	57.1	56.2				
173	49.2	51.5	53.4	57.2	54.2	56.4	57.1	57.7	58.3	56.5	57.8				
220	49.7	52.7	52.9	54.1	56.5	56.7	58.5	59.8	59.7	59.4	57.5				
254	52.9	55.6	57.3	57.7	58.8	56.1	58.9	60.2	59.3	59.8	58.8				
315	54.3	56.8	56.3	57.4	59.7	60.6	62.8	59.8	59.7	59.7	59.2				
413	52.7	54.7	56.2	57.1	57.1	58.7	56.2	59.2	56.8	57.4	56.8				
514	53.4	52.8	54.3	56.3	57.1	57.4	59.3	56.9	57.9	56.1	52.2				
630	51.8	55.6	56.7	57.7	57.2	61.3	61.7	62.7	60.9	57.2	51.8				
678	52.8	53.8	57.6	57.6	58.9	61.7	62.3	61.8	59.9	56.7	56.8				
1000	52.7	54.3	54.2	57.7	59.2	61.6	61.9	62.2	60.2	56.9	54.9				
1210	52.7	56.6	57.1	60.4	61.9	64.2	64.8	63.7	61.7	58.2	56.8				
1410	54.7	58.2	62.4	64.8	65.8	67.5	66.8	66.3	63.7	59.8	57.8				
1610	62.2	67.5	70.7	73.1	73.4	75.7	76.6	75.8	71.7	62.8	58.2				
2010	56.7	62.3	65.3	68.3	67.9	71.2	72.4	69.8	65.7	57.7	48.6				
2410	56.9	62.3	65.7	69.4	70.7	72.4	71.8	70.6	66.5	58.1	47.8				
2810	62.1	67.6	72.8	77.5	78.8	81.4	79.5	67.3	69.5	62.2	53.6				
3210	57.8	64.3	68.4	71.5	73.7	74.1	75.4	73.9	68.8	58.2	48.3				
3610	64.2	67.3	73.7	77.7	78.4	77.1	78.9	76.5	70.3	62.2	50.5				
4010	63.6	61.3	65.1	68.4	73.7	73.8	74.4	71.9	63.7	58.3	43.1				
4410	53.3	58.3	64.1	68.1	68.5	70.9	71.2	69.2	61.2	52.9	38.3				
4810	47.2	54.3	59.7	64.7	66.4	68.7	68.3	67.7	57.3	47.2	38.3				
5210	39.6	47.3	53.1	58.8	59.7	62.1	58.5	59.6	50.2	37.8	17.9				
5610	32.9	40.7	46.3	51.2	54.8	55.2	53.8	52.7	43.3	27.3	3.2				
6010	27.4	32.7	37.9	43.5	45.1	48.4	45.7	42.6	31.8	12.9					
6410	18.8	21.3	27.2	32.3	33.8	34.9	32.8	27.7	15.3						
6810		3.8	8.6	14.5	18.8	18.8	13.3	4.9							
7210															
7610															
8010															
OVERALL CALCULATED	78.8	75.3	79.8	81.4	44.1	85.3	89.7	86.9	78.1	71.7	66.6				
MEAS	63.5	68.9	82.6	94.7	97.7	100.8	99.3	100.4	91.8	84.9	77.1				

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OF POOR QUALITY



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 NO. 10.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (10.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	66.5	74.4	73.9	72.4	71.4	72.7	71.9	73.4	76.0	80.1	83.6							109.8
125	74.0	80.9	79.4	77.4	75.6	74.9	75.4	77.9	78.5	80.1	83.6							112.5
160	71.8	72.6	72.1	73.4	73.9	73.9	75.4	77.4	79.2	81.6	83.6							111.1
200	70.8	71.1	72.1	72.9	74.6	76.9	77.1	78.9	80.0	82.6	84.6							112.1
250	73.8	74.6	75.4	76.1	76.6	77.9	78.3	79.4	80.5	82.1	83.8							112.8
315	75.5	76.4	76.6	77.2	78.4	78.4	78.6	79.1	80.5	82.1	82.8							113.1
400	74.1	74.6	74.9	76.2	76.4	77.4	77.9	78.6	79.7	81.3	82.1							112.1
500	72.1	72.9	72.9	74.2	75.9	77.4	78.4	79.4	80.0	81.3	80.9							111.8
630	74.1	74.1	74.9	77.2	78.7	79.9	80.9	82.4	82.2	82.6	81.1							113.9
800	75.4	75.4	76.4	77.2	78.9	80.2	81.6	82.7	82.7	82.1	80.9							114.3
1000	73.1	73.9	75.6	77.7	79.1	81.5	82.3	83.6	84.2	83.3	79.9							115.8
1250	74.9	75.7	77.4	80.0	81.9	83.7	85.1	86.4	86.0	84.4	80.4							117.2
1600	80.2	81.4	84.1	87.6	90.0	92.0	92.3	92.4	91.7	90.4	83.4							124.8
2000	80.4	82.2	83.9	87.1	89.5	90.8	91.8	92.1	91.5	88.9	80.9							123.5
2500	79.4	80.5	82.6	86.1	89.0	91.0	91.6	90.8	91.0	86.2	82.1							122.7
3150	80.7	82.0	84.1	88.2	91.3	92.5	94.5	94.1	95.5	90.2	85.6							125.7
4000	79.4	81.5	84.1	88.7	91.3	92.5	94.7	94.3	94.4	89.6	85.5							125.6
5000	78.1	80.2	83.5	87.4	90.8	92.2	94.2	94.7	93.9	89.1	83.7							125.3
6300	76.5	78.5	81.0	85.5	88.4	90.2	92.2	93.3	92.9	87.8	82.8							123.7
8000	74.4	77.7	79.8	84.8	86.6	89.1	91.2	92.8	92.8	87.3	82.7							123.1
10000	74.2	76.3	80.1	84.6	86.7	89.5	91.0	92.8	92.4	87.5	82.9							123.1
12500	75.2	75.3	78.5	83.4	86.3	87.9	90.6	91.6	92.1	86.4	81.8							122.5
16000	75.4	72.7	76.1	80.1	83.3	85.8	87.7	90.6	89.4	84.2	79.0							120.7
20000	75.0	72.2	76.6	79.8	82.5	84.6	88.0	90.6	91.2	84.6	78.9							121.5
25000	77.4	71.3	76.4	78.9	81.4	83.7	86.9	88.7	88.8	83.2	77.7							120.5
31500	76.3	70.5	72.7	77.6	80.0	83.5	85.3	88.1	87.8	81.9	75.7							120.4
40000	74.3	68.4	70.8	74.6	77.4	80.6	83.2	84.5	84.3	79.5	71.5							118.7
50000	76.0	67.7	69.2	71.5	73.1	76.5	79.5	79.9	80.1	76.4	68.3							118.8
63000	70.7	67.2	68.8	69.5	70.7	72.7	73.5	73.2	73.5	71.3	68.6							114.4
80000	71.9	69.7	71.1	71.3	72.9	74.8	73.1	73.5	73.7	72.4	71.8							119.8
OVERALL MEASURED																		
OVERALL CALCULATED	90.8	91.9	93.9	97.4	100.0	101.7	103.4	104.1	104.1	100.1	97.0							138.8
PNDB	103.3	104.9	106.9	110.6	113.0	114.5	116.2	116.3	116.9	113.0	109.4							

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RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 6 60
LOC SCHENECTADY
DATE 11/22/74
RUN 22/3
TAPE
BAR 29.6 HG (00122. N/M2)
TAMB 31. DEG F (273. DEG K)
THET 29. DEG F (271. DEG K)
MACT 3.72 GM/M3 (.00372 KG/M3)
NFA 6944. RPM (727. RAD/SEC)
NFK 7139. RPM (747. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 606. FT/SEC

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 11 DAY 29 HR. 18.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 6 AP
LOC SCHENECTADY
DATE 11/22/74
RUN 22/3
TAPE
BAP 29.6 IN HG (99122. N/M2)
TAMB 31. DEG F (273. DEG K)
TWET 29. DEG F (271. DEG K)
HACT 3.72 GM/M3 (.00372 KG/M3)
NFA 6944. RPM (727. RAD/SEC)
NFK 7139. RPM (747. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 606. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.9	51.7	51.8	50.7	49.3	50.9	49.7	50.3	51.5	53.5	53.5						
125	50.3	58.1	57.2	55.6	54.0	53.1	53.1	54.8	53.9	53.4	53.4						
160	47.9	49.7	49.9	51.6	52.1	52.8	53.0	54.2	54.6	54.8	53.1						
200	45.8	49.1	49.8	51.0	52.8	54.9	54.7	55.6	55.2	55.6	53.9						
250	49.7	51.5	53.0	54.1	54.7	55.8	55.8	56.0	55.6	55.0	53.0						
315	51.4	53.2	54.1	55.1	55.4	56.3	56.0	55.6	55.5	54.8	51.7						
400	49.8	51.4	52.3	54.8	54.3	55.2	55.1	55.0	54.6	53.9	50.8						
500	47.7	49.5	50.2	51.9	53.7	55.1	55.5	55.7	54.7	53.8	49.3						
630	49.6	50.7	52.1	54.8	54.4	57.5	57.9	58.5	56.9	54.8	49.3						
800	50.7	51.8	53.5	54.7	56.5	57.7	58.5	58.7	57.2	54.1	48.7						
1000	48.3	50.1	52.4	55.1	56.7	58.8	59.2	59.5	58.5	55.2	47.4						
1250	49.9	51.8	54.2	57.3	59.3	60.9	61.8	62.1	60.1	55.9	47.5						
1600	55.0	57.3	60.8	64.6	67.2	69.0	68.8	67.9	65.6	61.7	50.1						
2000	55.0	57.9	60.3	64.0	66.5	67.6	68.1	67.4	65.1	59.8	53.1						
2500	52.8	56.0	58.9	62.9	65.9	67.7	67.7	65.7	64.4	58.8	47.9						
3150	54.7	57.2	60.1	64.6	67.9	68.9	70.4	68.8	68.5	60.3	50.7						
4000	52.8	56.2	59.6	64.7	67.5	68.5	70.1	68.5	66.9	59.0	49.5						
5000	51.3	54.6	58.8	63.2	66.7	67.9	69.3	68.7	66.0	58.1	47.1						
6300	48.7	52.2	55.5	60.6	63.6	65.2	66.6	66.4	64.8	55.5	44.4						
8000	45.2	50.1	53.2	58.8	60.8	63.1	64.4	64.6	62.4	53.1	41.4						
10000	43.1	47.8	51.9	57.1	59.3	61.9	62.6	62.8	59.8	50.6	37.7						
12500	41.3	43.4	47.9	53.7	56.8	58.0	59.8	59.0	56.5	45.6	30.9						
16000	36.9	36.7	41.7	46.6	50.1	52.3	53.0	53.7	48.7	36.9	18.6						
20000	30.4	30.7	37.3	41.6	44.6	46.5	48.2	48.0	43.8	28.9	6.1						
25000	24.1	22.1	29.8	33.8	36.7	38.4	39.8	38.1	32.8	15.4							
31500	13.2	9.9	15.6	22.4	25.4	28.1	27.5	25.8	17.8								
40000				4.5	8.1	10.2	9.5	4.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.1	67.1	69.5	73.3	75.9	77.3	78.2	77.4	75.6	69.8	63.8						
PNDB	77.2	80.8	82.8	86.8	89.5	90.8	91.8	90.9	89.7	83.1	74.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 11 DAY 25 HR. 10.4

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
SC																		
63																		
80																		
100	69.3	72.1	73.1	74.2	74.9	74.7	74.4	75.9	78.7	83.6	87.4							112.6
125	76.8	77.4	76.9	77.2	76.4	79.4	80.1	81.4	81.7	84.6	87.4							115.8
160	74.8	75.1	75.1	76.7	76.6	77.2	78.6	80.2	81.7	84.6	87.1							114.2
200	73.8	73.9	74.6	76.2	77.6	79.9	80.1	82.1	83.5	86.1	89.1							115.7
250	77.5	77.9	79.4	80.9	81.1	82.1	83.1	84.6	85.7	84.8	88.1							117.4
315	78.8	79.1	79.4	81.2	80.8	81.6	81.8	82.9	83.5	85.3	86.6							116.3
400	77.6	78.1	78.1	79.2	79.6	80.4	81.9	82.6	83.0	85.1	85.8							115.8
500	74.8	75.9	75.9	77.7	78.4	79.9	81.4	82.2	83.0	84.6	84.6							114.8
630	76.6	76.6	78.1	80.7	80.9	82.9	83.6	85.4	85.5	85.3	84.9							116.9
800	77.9	77.9	78.6	80.2	81.1	82.9	84.1	85.4	85.2	84.6	83.9							116.9
1000	75.9	76.9	77.9	81.2	81.9	84.0	85.1	86.4	86.0	85.1	82.9							117.5
1250	77.2	77.7	79.9	84.3	84.6	86.5	87.3	87.9	87.7	85.6	82.9							119.3
1600	79.7	80.9	82.4	85.5	86.7	88.5	89.6	90.9	89.7	86.4	82.9							121.5
2000	85.4	88.0	88.6	92.1	93.2	94.0	95.1	97.6	95.8	91.9	87.6							127.5
2500	82.4	84.7	86.1	91.4	92.8	94.5	94.1	93.4	93.8	88.2	84.9							125.9
3150	82.2	83.2	85.9	90.4	92.5	94.5	95.8	94.4	95.8	89.9	85.8							126.7
4000	83.9	86.0	88.3	92.7	94.5	96.7	97.7	99.3	97.9	93.9	89.8							129.8
5000	80.9	83.6	86.0	90.1	93.3	95.0	96.4	96.7	95.9	90.6	85.7							127.5
6300	80.2	82.3	85.5	90.0	92.4	94.5	95.4	96.8	96.7	90.8	86.1							127.4
8000	77.9	81.2	84.3	89.0	90.6	93.4	94.5	96.0	95.5	90.0	84.9							126.4
10000	76.9	79.8	83.4	88.6	90.7	93.0	94.3	95.5	95.9	90.0	85.4							126.4
12500	76.7	79.0	82.5	87.4	90.1	92.1	94.1	95.1	95.4	89.4	84.6							126.1
16000	74.4	76.2	79.3	84.1	87.3	89.5	91.7	93.4	92.6	86.4	82.7							126.0
20000	73.8	75.9	78.9	84.1	86.2	89.3	91.7	94.1	93.7	87.4	82.6							126.8
25000	74.4	74.6	77.4	82.7	85.6	88.2	90.9	93.0	92.3	87.0	81.7							126.4
31500	74.3	74.0	76.5	82.1	84.2	87.2	89.5	91.6	91.0	85.4	79.4							124.8
40000	73.3	71.9	74.1	78.6	81.1	84.1	87.4	88.0	88.3	82.7	75.0							122.5
50000	71.0	69.9	71.9	75.3	76.9	80.5	83.2	83.7	83.6	79.1	71.0							120.1
63000	72.0	69.7	71.0	74.0	74.7	78.0	77.2	77.5	77.2	73.5	67.6							117.9
80000	74.4	71.7	74.6	77.1	77.0	78.8	77.3	77.7	76.5	72.4	66.3							122.9
OVERALL MEASURED																		
OVERALL CALCULATED	93.3	95.0	96.9	101.0	102.9	104.9	106.1	107.2	106.7	102.4	108.0							130.8
PNDB	106.4	108.2	110.2	114.2	115.9	117.9	118.9	120.0	119.3	115.7	112.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 25 HR. 10.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.6	49.4	51.1	52.5	53.3	52.9	52.2	52.0	54.3	57.0	57.3						
125	53.0	54.6	54.7	55.4	56.7	57.6	57.4	56.3	57.2	57.9	57.1						
160	50.9	52.2	52.0	54.5	54.9	55.3	56.2	56.9	57.1	57.0	56.6						
200	49.8	50.9	52.3	54.2	55.8	57.9	57.7	56.8	58.7	59.1	58.4						
250	53.5	54.8	57.0	58.9	59.2	60.1	60.6	61.2	60.8	59.7	57.2						
315	54.6	56.0	56.9	59.1	58.7	59.5	59.2	59.4	58.5	58.1	55.5						
400	53.3	54.9	55.6	57.0	57.6	58.2	59.1	59.0	57.9	57.7	54.5						
500	50.4	52.5	53.2	55.4	56.2	57.6	58.5	58.4	57.7	57.0	53.0						
630	52.1	53.2	55.4	58.3	58.7	60.5	60.7	61.5	60.1	57.6	53.0						
800	53.2	54.3	55.7	57.7	58.8	60.4	61.0	61.4	59.7	58.8	51.7						
1000	51.1	53.1	54.8	58.6	59.4	61.3	61.9	62.3	60.3	58.9	50.4						
1250	52.2	53.8	56.7	61.5	61.8	63.7	64.0	63.6	61.8	57.2	50.0						
1600	54.5	56.8	59.0	62.9	64.0	65.5	66.1	66.4	63.6	57.7	49.6						
2000	60.0	63.7	65.1	69.0	70.3	70.9	71.4	72.9	68.6	62.8	53.9						
2500	56.8	60.2	62.4	66.1	69.6	71.2	70.2	68.4	67.1	58.8	50.7						
3150	56.2	58.4	61.9	66.9	69.1	70.9	71.6	69.1	66.7	60.1	50.9						
4000	57.3	60.7	63.9	68.7	70.7	72.7	73.1	73.5	70.4	63.3	53.8						
5000	54.0	57.9	61.3	65.9	69.2	70.7	71.5	70.7	68.0	59.8	49.1						
6300	52.4	55.9	60.0	65.1	67.6	69.5	69.8	69.9	67.8	58.5	47.8						
8000	48.7	53.8	57.7	63.9	64.8	67.3	67.7	67.9	65.1	55.8	43.6						
10000	45.8	50.5	55.2	61.1	63.3	65.4	65.8	65.6	63.4	53.1	40.2						
12500	42.8	47.2	51.9	57.7	60.6	62.3	63.3	62.5	59.8	48.6	33.6						
16000	35.9	40.2	45.0	50.6	54.1	56.0	57.0	56.5	51.8	39.2	22.4						
20000	29.2	34.5	39.5	45.0	48.3	51.0	51.9	51.5	46.3	31.6	9.9						
25000	21.1	25.3	30.8	37.6	41.0	42.9	43.8	42.3	35.5	19.1							
31500	8.2	13.4	19.3	26.8	29.7	31.9	31.7	29.1	20.3								
40000			1.3	8.5	11.6	13.7	13.7	7.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	67.2	69.9	72.3	76.7	78.5	80.1	80.6	80.3	77.9	72.0	67.1						
PNDB	80.2	83.2	86.0	90.4	92.2	94.0	94.4	94.4	91.9	85.6	77.5						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 6 AB
LOC SCHENECTADY
DATE 11/22/74
RUN 22/4
TAPE
BAR 29.6 HG (100122. N/M2)
TAMB 31. DEG F (273. DEG K)
TMCT 29. DEG F (271. DEG K)
HACT 3.72 GM/M3 (.00372 KG/M3)
NFA 7712. RPM (807. RAD/SEC)
NFK 7920. RPM (830. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 673. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SCUNT PRESSURE LEVELS (SQ. DEG. F. 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 11 DAY 25 NO. 18.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.0	72.1	72.9	73.9	75.1	75.4	75.1	76.9	79.0	83.9	87.6							112.9
VEHICLE R-55	125	77.0	77.1	75.9	76.4	79.4	79.9	79.9	81.4	81.7	84.1	87.1							116.6
CONFIG 6.0B	160	74.8	75.4	75.1	76.4	77.4	77.4	79.4	80.9	82.2	85.1	87.6							116.7
LOC SC-EWECTADY	200	73.5	73.9	74.6	76.2	77.9	79.9	80.1	82.6	83.5	86.1	88.6							115.7
DATE 11/22/74	250	79.0	78.1	79.4	80.1	80.9	82.1	83.3	85.1	85.7	87.1	88.3							117.5
RUN 22/5	315	76.5	79.1	79.4	80.4	80.6	81.6	81.8	83.1	83.7	85.3	86.8							116.3
TAPE	400	77.8	78.6	78.1	79.4	79.6	80.7	81.6	82.9	83.2	84.8	85.8							115.7
BAR 29.6 HG	500	74.8	75.9	75.9	77.4	78.9	80.2	81.9	83.2	83.5	84.3	84.6							115.1
(100122. N/M2)	630	76.6	76.9	78.1	79.9	81.9	82.9	84.4	84.9	85.2	85.3	84.8							116.9
TAMB 31. DEG F	800	77.9	78.1	78.9	80.4	81.9	82.9	83.8	85.2	85.2	85.1	84.1							118.9
(273. DEG K)	1000	76.1	77.4	78.1	80.4	81.9	84.0	85.3	86.4	86.0	85.3	83.4							117.5
TWET 29. DEG F	1250	77.7	77.7	80.1	82.6	84.2	86.5	87.1	87.9	87.5	85.8	83.1							119.2
(271. DEG K)	1600	79.9	81.2	82.6	85.1	87.2	88.8	89.8	90.6	89.5	86.4	82.4							121.5
HACT 3.72 GM/M3	2000	85.4	86.5	86.4	91.8	93.0	94.3	95.1	96.1	95.8	91.7	87.4							127.7
(.00372 KG/M3)	2500	82.4	84.7	86.4	90.6	93.0	94.5	94.1	93.6	94.0	88.9	84.1							120.0
NFA 7712. RPM	3150	82.4	83.7	86.1	89.7	92.8	94.5	95.8	94.4	96.0	90.2	85.8							120.8
(807. RAD/SEC)	4000	84.4	86.2	88.1	92.9	94.8	96.7	98.5	99.5	97.9	94.4	89.8							129.6
NFK 7029. RPM	5000	81.1	83.4	86.3	91.2	93.0	95.0	96.9	96.7	95.6	90.8	86.0							127.8
(830. RAD/SEC)	6300	80.2	82.8	85.7	89.9	92.6	94.2	95.7	97.3	96.7	90.8	86.8							127.5
NFD 8823. RPM	8000	77.9	81.7	83.6	85.3	90.6	92.6	94.5	96.0	95.8	90.5	84.4							126.4
(924. RAD/SEC)	10000	77.2	80.1	83.6	86.9	90.9	93.0	94.8	95.8	95.9	90.5	84.9							126.6
NO. OF BLADES 15	12500	76.9	78.8	82.2	87.4	89.8	91.9	93.9	95.4	95.1	89.7	84.1							126.0
FAN TIP SPEED	16000	74.4	77.0	79.3	84.3	87.0	89.5	91.7	93.6	92.6	86.7	82.5							124.0
673. FT/SEC	20000	75.3	76.4	79.1	83.8	86.5	89.3	91.7	93.9	93.7	87.8	82.1							124.8
	25000	75.4	75.8	77.9	82.9	85.4	88.4	90.7	93.0	93.3	87.0	81.9							124.0
	31500	74.8	74.5	76.2	82.1	84.5	87.7	89.5	91.8	91.3	86.4	79.7							124.2
	40000	74.3	71.9	74.3	78.9	81.4	84.6	87.4	88.3	88.5	83.5	74.5							122.7
	50000	74.0	69.9	71.4	75.8	77.4	80.5	83.2	83.9	84.1	80.1	69.8							120.4
	63000	72.0	69.0	70.8	73.7	75.2	78.5	77.7	78.5	77.7	73.8	67.3							118.3
	80000	73.1	71.7	72.8	76.6	78.1	78.5	77.6	80.2	77.2	72.2	66.3							120.7
OVERALL MEASURED																			
OVERALL CALCULATED		93.5	95.2	96.8	100.8	103.0	104.8	106.3	107.4	106.9	102.8	99.8							113.6
	PNDB	106.7	108.5	110.2	114.1	116.1	117.9	119.3	120.2	119.4	116.8	112.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 10.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.4	49.4	50.8	52.2	53.5	53.7	52.9	53.8	54.5	57.3	57.5						
125	53.3	54.3	53.7	54.6	56.7	56.1	57.6	58.3	57.2	57.4	56.9						
160	50.9	52.5	52.9	54.6	55.6	55.5	57.0	57.7	57.6	58.3	57.1						
200	49.6	50.9	52.3	54.2	56.1	57.9	57.7	59.3	58.7	59.1	57.9						
250	54.0	55.0	57.0	58.1	59.0	60.1	60.8	61.7	60.8	60.0	57.5						
315	54.4	56.0	56.9	58.3	58.7	59.5	59.6	59.6	58.7	58.1	55.7						
400	53.5	55.4	55.6	57.2	57.6	58.4	58.9	59.3	58.1	57.4	54.5						
500	50.4	52.5	53.2	55.2	56.7	57.9	59.0	59.4	58.2	56.8	53.8						
630	52.1	53.4	55.4	57.6	59.7	60.5	61.4	61.0	59.9	57.6	52.5						
800	53.2	54.5	56.0	58.0	59.5	60.4	60.8	61.2	59.7	57.1	52.0						
1000	51.3	53.6	55.1	57.8	59.4	61.3	62.2	62.3	60.3	57.2	50.9						
1250	52.7	53.8	57.0	60.0	61.6	63.7	63.8	63.6	61.6	57.2	50.3						
1600	54.7	57.1	59.3	62.1	64.5	65.8	66.3	66.1	63.4	57.7	49.1						
2000	60.0	64.2	64.8	68.5	70.0	71.1	71.4	73.4	69.4	62.6	53.8						
2500	56.8	60.2	62.7	67.4	69.9	71.2	70.2	68.7	67.4	59.6	49.9						
3150	56.4	58.9	62.1	66.1	69.4	70.9	71.6	69.1	69.8	60.3	50.9						
4000	57.8	60.9	63.6	66.9	71.0	72.7	73.9	73.8	70.4	63.0	53.8						
5000	54.3	57.9	61.6	66.2	69.0	70.7	72.8	70.7	67.7	59.6	49.4						
6300	52.4	56.4	60.3	64.9	67.9	69.2	70.1	70.4	67.8	58.5	47.4						
8000	48.7	54.1	57.0	62.3	64.8	66.6	67.7	67.9	65.4	56.3	43.1						
10000	46.1	50.7	55.4	61.3	63.6	65.4	66.3	65.8	63.4	53.6	39.7						
12500	43.8	46.9	51.7	57.7	60.3	62.0	63.1	62.8	59.5	49.8	33.1						
16000	39.9	41.8	45.8	50.9	53.9	56.0	57.8	56.7	51.9	38.4	22.1						
20000	36.7	35.0	39.8	45.6	48.6	51.0	51.9	51.3	46.3	31.9	9.4						
25000	22.1	28.6	31.3	37.8	40.7	43.2	43.6	42.3	36.8	19.1							
31500	8.7	13.9	19.1	28.9	29.9	32.4	31.7	29.3	28.5								
40000			1.6	8.7	12.1	14.2	13.7	8.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	67.3	70.2	72.3	76.3	78.6	80.1	80.7	80.6	78.8	72.2	67.1						
PNDB	88.4	83.5	85.9	90.3	92.4	94.8	94.8	94.7	92.8	85.9	77.2						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 6 AR
LOC SCHENECTADY
DATE 11/22/74
RUN 22/5
TAPE
BAR 29.6 HG (100122. N/M2)
TAMB 31. DEG F (273. DEG K)
TWET 29. DEG F (271. DEG K)
HACT 3.72 GM/M3 (.00372 KG/M3)
NFA 7712. RPM (807. RAD/SEC)
NFX 7929. RPM (830. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 673. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 10.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	15. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	64.0	65.4	70.1	72.9	73.6	73.4	69.9	67.4	69.5	72.8	75.4							185.5
125	68.0	67.1	71.9	68.7	70.6	68.2	67.4	71.2	71.5	72.3	74.9							184.5
160	65.0	65.6	66.6	67.2	67.6	68.4	69.6	70.4	71.7	74.1	75.4							184.1
200	66.0	66.9	66.9	67.7	69.1	70.4	71.1	72.6	73.5	75.8	76.6							185.6
250	67.8	68.1	68.9	69.4	69.9	70.6	71.8	72.6	73.0	74.3	75.3							185.6
315	69.0	70.1	70.4	71.2	71.4	72.4	72.3	72.4	73.2	74.1	74.3							186.1
400	67.8	69.1	69.1	69.9	70.6	71.7	72.6	73.1	73.2	74.3	73.8							185.8
500	66.3	67.6	67.4	68.7	70.4	71.2	72.6	73.9	74.0	75.1	73.9							185.8
630	68.9	69.4	69.9	71.9	73.4	74.9	75.9	76.7	77.0	76.8	74.9							188.6
800	70.9	71.1	71.9	72.2	74.1	75.4	76.3	77.7	77.7	78.1	75.1							189.4
1000	67.6	69.1	70.1	72.4	74.6	76.7	77.8	79.4	79.7	79.6	74.1							188.5
1250	79.4	78.4	78.6	82.3	84.9	87.7	86.3	86.4	85.2	86.6	79.9							195.8
1600	73.9	74.2	74.9	78.1	80.0	82.8	83.3	84.4	83.2	83.6	77.1							191.4
2000	74.2	76.0	77.1	79.6	81.5	83.0	84.6	84.9	83.8	83.2	77.4							191.1
2500	75.4	76.5	78.1	81.6	84.5	86.3	88.8	89.6	90.3	87.4	80.6							198.4
3150	73.4	74.5	77.1	79.7	83.5	85.3	87.0	87.6	88.3	85.9	79.8							196.7
4000	72.7	74.2	76.6	80.2	83.5	86.0	87.0	88.3	89.2	86.9	80.3							197.3
5030	70.6	72.4	74.8	77.9	81.5	84.2	85.4	86.7	87.1	84.6	78.7							193.5
6300	70.2	70.8	73.0	76.5	80.1	82.5	84.2	85.5	86.7	83.6	78.6							190.6
8000	70.6	69.7	71.8	75.5	79.1	81.6	83.0	84.8	85.3	83.0	78.7							189.6
10000	72.2	68.6	71.1	74.6	77.9	81.0	82.8	84.5	85.9	82.8	79.8							189.6
12530	75.2	67.5	69.7	73.4	77.3	79.4	81.9	83.6	85.6	81.4	80.6							188.1
16000	73.2	66.8	67.6	70.8	75.3	77.8	79.7	82.9	83.4	79.2	80.5							183.7
20000	72.3	65.7	67.4	70.6	74.2	76.6	78.7	81.9	83.9	78.4	79.4							183.8
25000	71.6	66.6	65.9	69.2	72.4	74.9	77.2	79.7	80.6	77.5	75.5							182.1
31500	67.8	66.5	65.7	68.6	71.5	74.2	76.3	79.3	80.3	76.6	78.2							182.2
40000	67.8	66.7	65.1	67.1	68.4	71.6	73.9	76.0	77.3	73.7	66.7							180.8
50000	70.5	67.9	66.4	67.5	67.1	68.5	71.2	71.2	72.3	70.1	64.5							180.8
63000	71.5	68.8	68.0	68.0	67.0	67.7	69.0	67.0	67.5	66.5	64.3							181.8
80000	71.9	68.5	68.6	68.6	68.4	70.0	70.0	69.0	68.5	67.9	64.8							182.5
OVERALL MEASURED																		
OVERALL CALCULATED	86.6	86.1	87.4	90.2	93.0	95.2	96.5	97.6	98.1	96.1	91.9							199.2
PNDB	97.8	98.5	100.2	103.1	105.9	108.1	109.5	110.4	110.9	109.2	103.9							

FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 10.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 6 60
LOC SCHENECTADY
DATE 11/22/74
RUN 22/6
TAPE
BAR 29.6 HG (100322. N/M2)
TAMB 31. DEG F (273. DEG K)
TWET 29. DEG F (271. DEG K)
HACT 3.72 GM/M3 (.00372 KG/M3)
NFA 5399. RPM (565. RAD/SEC)
NFK 5551. RPM (581. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 471. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0.	0.	0.	0.	0.	0.	0.
50																		
63																		
80																		
100	40.4	42.7	48.1	51.2	52.0	51.7	47.7	44.3	45.0	46.3	45.3							
125	44.3	44.3	49.7	46.9	49.0	46.3	45.1	48.0	46.9	45.7	44.6							
160	41.2	43.7	44.4	45.3	45.9	46.5	47.2	47.2	47.1	47.3	44.9							
200	42.1	43.9	44.6	45.7	47.3	48.4	48.7	49.3	48.7	48.9	46.2							
250	43.7	45.0	47.5	47.4	48.0	48.6	49.3	49.2	48.1	47.2	44.5							
315	44.9	47.0	47.9	49.1	49.4	50.3	49.7	48.9	48.2	46.8	43.2							
400	43.5	45.9	46.6	47.7	48.6	49.4	49.9	49.5	48.1	46.9	42.5							
500	41.9	44.3	44.7	46.4	48.2	48.9	49.8	50.2	48.7	47.5	42.3							
630	44.3	45.9	47.1	49.6	51.2	52.5	52.9	52.8	51.6	49.1	43.0							
800	46.2	47.5	49.0	49.7	51.8	52.9	53.3	53.7	52.2	50.1	43.0							
1000	42.8	45.4	47.1	49.8	52.2	54.1	54.7	55.3	54.0	51.4	41.6							
1250	54.4	54.5	55.5	59.5	62.3	64.9	63.0	62.1	59.3	58.2	47.0							
1600	48.7	50.1	51.5	55.1	57.2	59.8	59.8	59.9	57.1	54.9	43.9							
2000	48.7	51.7	53.6	56.5	58.5	59.9	60.9	60.2	57.4	54.1	43.6							
2500	49.8	52.0	54.4	58.4	61.4	63.0	64.9	64.7	63.6	58.1	46.4							
3150	47.4	49.7	53.1	56.1	60.1	61.7	62.9	62.3	61.2	56.1	44.9							
4000	46.1	48.9	52.1	56.2	59.7	62.0	62.4	62.5	61.6	56.3	44.3							
5000	43.8	46.9	50.1	53.7	57.5	59.9	60.5	60.7	59.2	53.8	42.1							
6300	42.4	44.4	47.5	51.6	55.4	57.5	58.6	58.7	57.8	51.3	40.1							
8000	41.5	42.1	45.2	49.5	53.3	55.0	56.2	56.6	54.9	48.8	37.4							
10000	41.1	39.2	42.9	47.1	50.6	53.4	54.3	54.6	53.4	45.9	34.7							
12500	39.3	35.7	39.2	43.7	47.8	49.5	51.1	51.0	50.0	40.8	29.6							
16000	34.8	30.0	33.2	37.4	42.1	43.5	45.8	46.0	42.7	31.9	20.1							
20000	27.7	24.2	28.0	32.4	36.3	38.2	38.9	39.3	36.6	23.6	6.6							
25000	18.3	17.3	19.3	24.1	27.7	29.7	30.1	29.1	23.7	9.6								
31500	1.7	5.9	8.6	13.4	18.9	18.9	18.5	16.8	9.5									
40000						1.2	0.2											
50000																		
63000																		
80000																		
OVERALL CALCULATED	59.7	61.3	63.4	66.5	69.4	71.3	71.7	71.5	70.1	66.8	57.1							
PNDB	71.7	73.7	76.2	79.6	82.5	84.2	85.3	85.2	83.9	79.2	68.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 11 DAY 25 NO. 10.5

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	157. (2.73)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. N)	100	64.3	65.4	70.9	73.2	74.6	74.2	78.6	67.2	69.5	72.8	78.1							106.1
VEHICLE R-98	125	67.5	67.9	72.1	69.4	70.9	67.9	68.6	71.2	72.0	73.6	74.0							106.8
CONFIG GAW	160	66.8	66.6	66.6	67.4	67.9	68.2	68.9	70.2	71.7	73.3	76.4							103.9
LOC SCHENECTADY	200	65.0	67.1	68.1	68.2	68.9	70.6	71.1	72.6	73.2	73.6	76.8							105.6
DATE 11/22/74	250	67.0	68.4	69.1	69.4	70.4	70.9	71.8	72.4	73.5	74.1	75.6							105.6
RUN 22/7	315	69.0	70.1	70.4	71.2	71.9	72.1	72.1	72.6	73.2	74.0	74.8							106.3
TAPE	400	68.1	69.4	69.4	70.4	70.9	71.7	72.0	72.9	73.9	74.3	74.1							105.9
BAR 29.6 HG	500	66.1	67.9	67.6	68.7	70.1	71.9	72.4	73.7	74.8	74.8	73.8							105.6
(99)22. N/M2)	630	69.1	69.6	70.6	72.4	73.7	74.9	76.1	76.7	76.8	77.1	74.9							108.6
TAMB 31. DEG F	800	70.9	71.6	72.1	72.2	74.1	75.4	77.1	77.7	77.7	78.3	74.9							109.9
(273. DEG K)	1000	68.1	69.4	70.1	72.7	74.4	77.9	78.1	78.4	78.2	79.0	74.4							110.5
TMET 29. DEG F	1250	79.7	78.7	78.6	80.5	84.9	87.7	86.6	86.1	85.5	86.9	80.4							118.9
(271. DEG K)	1600	73.9	74.7	75.6	78.1	81.9	82.8	83.3	83.6	83.2	83.6	77.1							115.4
RHOT 3.72 GM/M3	2000	74.2	75.7	77.1	79.1	82.8	83.3	84.3	84.6	83.8	83.8	78.1							116.1
(.00372 KG/M3)	2500	74.9	76.7	78.4	81.6	84.3	86.0	86.8	86.1	86.0	87.4	80.4							120.2
NFA 5484. RPM	3150	73.2	75.0	77.4	80.4	83.3	85.3	87.0	87.4	87.5	86.4	79.6							118.6
(586. RAD/SEC)	4000	72.4	73.9	76.8	80.4	84.0	86.2	87.0	88.3	88.9	87.1	80.8							119.4
NFB 5586. RPM	5000	70.6	72.2	75.8	78.6	81.8	84.5	85.6	86.2	87.4	85.3	77.7							117.7
(582. RAD/SEC)	6300	68.7	70.8	73.2	77.0	80.4	82.2	84.2	85.5	86.4	83.6	77.6							116.4
NFB 8823. RPM	8000	67.1	69.7	72.1	76.8	79.1	81.6	83.9	84.5	85.8	82.6	76.7							115.4
(924. RAD/SEC)	10000	66.9	68.8	71.1	75.1	78.2	80.7	82.5	84.8	85.4	82.5	76.6							115.2
NO. OF BLADES 15	12500	66.9	67.8	69.7	74.2	77.3	79.1	81.6	84.1	85.1	81.2	76.6							114.8
FAN TIP SPEED	16000	66.7	65.7	68.8	71.3	74.8	77.9	79.4	82.1	83.1	79.7	75.2							112.1
472. FT/SEC	20000	66.0	65.4	68.4	70.8	74.0	76.6	79.0	81.8	83.6	79.8	74.4							112.5
	25000	66.4	66.6	65.6	69.4	72.4	74.4	76.9	79.7	80.6	77.2	71.7							111.7
	31500	65.8	66.8	65.8	69.1	71.7	74.2	76.8	78.6	80.8	76.6	69.7							112.8
	40000	65.5	65.4	64.8	66.6	68.9	71.1	73.9	75.8	77.8	74.2	68.5							110.7
	50000	67.8	66.7	66.2	66.5	68.6	69.3	70.7	71.2	72.1	70.6	65.3							109.2
	63000	70.0	66.7	67.5	67.8	66.7	67.5	68.8	67.5	68.8	66.5	65.3							110.6
	80000	70.8	67.3	68.8	67.8	66.4	67.3	70.8	70.8	69.2	66.6	64.8							110.9
OVERALL MEASURED																			
OVERALL CALCULATED		85.6	86.2	87.6	90.2	93.2	95.3	96.5	97.3	97.8	96.3	91.8							120.1
	PNDB	97.2	98.8	100.4	103.3	106.2	108.2	109.5	110.1	110.7	109.3	103.8							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 28 HR. 16.5

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	40.6	42.7	46.8	51.5	53.0	52.4	48.4	44.1	45.8	46.3	46.0						
VEHICLE R-55	125	43.8	45.1	50.0	47.6	49.2	48.1	46.3	48.0	47.4	45.9	44.6						
CONFIG 6.00	160	42.2	43.7	44.4	45.6	46.1	46.3	46.5	46.9	47.1	46.5	44.9						
LOC SCHENECTADY	200	41.1	44.1	45.8	46.2	47.1	48.7	48.7	49.3	48.5	48.6	46.2						
DATE 11/22/74	250	43.0	45.3	46.7	47.4	48.5	48.8	49.3	49.0	48.6	47.0	44.7						
RUN 22/7	315	44.9	47.0	47.9	49.1	49.9	50.0	49.5	49.1	48.2	47.3	43.7						
TAPE	400	43.0	46.1	46.8	48.2	48.8	49.4	49.9	49.3	47.9	46.9	42.8						
BAR 29.6 MG	500	41.7	44.5	45.8	46.4	48.0	49.0	49.5	49.9	48.7	47.0	42.3						
(00122. N/M2)	630	44.6	46.2	47.9	50.1	51.4	52.5	53.2	52.8	50.6	49.3	43.0						
TAMB 31. DEG F	800	46.2	48.0	49.2	49.7	51.8	52.9	54.0	53.7	52.2	50.4	42.7						
(273. DEG K)	1000	43.3	45.6	47.1	50.1	51.9	54.3	54.9	55.3	53.5	51.7	41.9						
THET 29. DEG F	1250	54.7	54.8	55.5	59.8	62.3	64.9	63.3	61.8	59.6	58.4	47.5						
(271. DEG K)	1600	48.7	50.6	52.3	55.1	58.2	59.8	59.8	59.1	57.1	54.9	43.9						
MACT 3.72 GM/M3	2000	48.7	51.4	53.6	56.0	59.0	60.1	60.6	59.9	57.4	54.1	44.4						
(.00372 KG/M3)	2500	49.3	52.2	54.7	58.4	61.1	62.7	64.9	64.2	63.4	58.1	46.2						
NFA 5404. RPM	3150	47.2	50.2	53.4	56.9	59.9	61.7	62.9	62.1	60.5	56.6	44.7						
(566. RAD/SEC)	4000	45.8	49.7	52.4	56.4	60.2	62.2	62.4	62.5	61.4	56.5	44.8						
NFK 5556. RPM	5000	43.8	46.6	50.3	54.4	57.7	60.2	61.8	60.2	59.5	54.3	41.1						
(582. RAD/SEC)	6300	40.9	44.4	47.8	52.1	55.6	57.2	58.6	58.7	57.5	51.3	38.1						
NFD 8823. RPM	8000	38.0	42.1	45.5	50.0	53.3	55.6	56.2	56.4	54.6	48.8	35.4						
(924. RAD/SEC)	10000	35.0	39.2	42.9	47.6	50.8	53.1	54.1	54.1	52.9	45.6	31.4						
NO. OF BLADES 15	12500	33.0	35.9	39.2	44.4	47.8	49.3	50.8	51.5	49.5	40.3	28.6						
FAN TIP SPEED	16000	28.1	29.7	32.5	37.9	41.6	43.5	44.7	45.2	42.4	32.4	14.9						
472. FT/SEC	20000	21.4	24.0	27.0	32.4	36.1	38.2	39.2	39.0	36.6	23.9	1.8						
	25000	13.1	17.3	19.8	24.3	27.7	29.2	29.8	29.1	23.7	9.4							
	31500		5.4	7.8	13.9	17.2	18.9	19.8	18.1	9.3								
	40000						0.7	0.2										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		50.6	51.5	53.6	56.8	59.5	71.4	71.8	71.3	69.9	66.1	57.1						
MEAS		71.2	74.0	76.4	79.8	82.6	84.4	85.4	84.8	83.7	79.3	68.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 10.8

MODEL SOUND PRESSURE LEVELS 150. DEC. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. 0. 0. 0. 0. 0. 0. (0. 110. 120. 130. 140. 150. 160.)	PWL
50													
63													
80													
100	75.8	75.6	72.8	73.9	72.6	69.9	70.4	70.2	73.0	70.6	70.9		100.2
125	70.0	69.6	72.1	71.4	72.1	71.2	71.4	74.2	74.7	75.0	70.1		107.4
160	68.8	69.1	69.1	70.2	70.6	71.2	72.4	73.7	75.5	77.0	70.6		107.5
200	68.0	68.4	68.4	70.2	71.6	74.1	74.1	75.9	77.9	79.0	81.1		109.1
250	70.8	70.9	72.1	72.9	73.9	74.1	74.8	76.1	76.7	78.3	79.3		109.1
315	72.5	73.6	73.4	74.7	74.9	75.1	75.3	76.4	76.7	78.6	78.8		109.7
400	71.1	71.9	71.6	72.9	73.4	74.7	75.4	76.1	76.5	77.8	78.8		109.8
500	68.8	69.9	70.4	71.9	73.1	74.7	75.8	76.7	77.9	77.8	77.8		108.8
630	71.9	71.4	73.1	74.9	76.2	77.4	78.6	79.9	79.2	79.8	78.1		111.4
800	72.9	72.8	74.1	74.9	76.8	78.2	79.1	79.8	80.9	79.6	77.8		111.7
1000	70.4	71.6	72.9	75.4	77.1	79.0	80.6	81.6	82.0	81.3	76.9		112.9
1250	73.4	74.4	75.9	78.3	80.4	82.8	83.1	84.4	84.8	84.1	78.8		115.5
1600	81.9	83.4	82.9	85.1	87.3	87.8	89.1	89.1	89.2	90.4	83.9		121.4
2000	76.9	78.2	78.6	82.3	85.8	87.0	87.8	87.9	86.8	86.2	80.6		118.2
2500	76.4	77.7	78.2	83.4	85.5	86.8	88.0	88.1	88.5	85.9	79.8		120.8
3150	74.9	80.8	81.9	85.7	88.8	90.8	92.8	92.4	93.8	91.4	84.3		123.9
4000	75.7	78.8	79.8	84.6	86.5	89.8	90.2	91.8	90.4	87.9	82.8		121.8
5000	75.4	77.8	80.8	84.1	86.6	90.8	90.2	91.8	90.6	87.6	81.5		122.8
6300	73.8	74.8	77.2	81.5	84.4	87.8	88.2	89.8	88.7	85.3	79.8		120.2
8000	71.1	73.7	75.8	80.5	82.8	85.9	87.5	88.5	89.0	85.3	79.7		119.4
10000	70.2	72.8	75.4	80.6	82.9	85.5	87.3	88.5	89.4	85.5	79.8		119.5
12500	69.7	71.8	74.8	78.9	81.6	83.8	86.1	87.9	88.4	84.4	79.1		118.8
16000	66.9	69.5	70.8	75.3	78.8	81.5	83.9	86.1	85.4	81.7	77.2		116.6
20000	66.5	68.7	70.6	74.8	78.8	80.6	83.5	86.1	87.6	82.1	77.4		117.5
25000	66.4	68.3	69.4	74.2	76.8	79.2	81.9	84.8	84.3	80.0	75.5		115.8
31500	66.8	67.5	68.2	73.1	76.8	79.8	81.8	83.1	83.3	79.4	73.2		115.9
40000	65.8	66.9	68.3	70.1	72.6	75.8	78.7	80.8	80.5	77.2	68.7		114.7
50000	67.5	67.7	66.9	68.5	69.9	72.5	74.7	79.4	79.3	73.4	65.5		112.5
63000	69.2	67.7	67.5	67.7	68.7	69.7	71.2	78.2	78.5	68.3	64.1		112.1
80000	70.4	68.2	69.3	69.1	71.1	72.9	73.3	72.2	71.8	66.2	65.3		117.7
OVERALL MEASURED													
OVERALL CALCULATED	88.3	89.6	90.6	94.8	96.3	98.6	99.8	100.7	101.0	96.7	94.8		132.2
PNDB	101.2	102.5	104.8	107.4	108.6	112.8	113.1	113.8	114.3	112.4	107.8		

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (and Radians)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	52.1	52.9	50.6	52.2	51.0	48.2	48.2	47.1	48.5	50.0	49.0						
125	46.3	46.8	50.0	49.6	50.5	49.3	49.1	51.0	50.2	49.2	48.9						
160	44.9	46.2	48.9	48.3	48.9	49.3	50.0	50.4	50.8	50.0	49.1						
200	44.1	45.4	47.1	48.2	49.8	52.2	51.7	52.6	52.2	52.9	50.4						
250	46.7	47.8	49.7	50.9	52.3	52.1	52.3	52.7	51.8	51.2	48.5						
315	48.4	50.5	50.9	52.6	52.9	53.0	52.7	52.9	51.7	51.3	47.7						
400	48.8	48.6	49.1	50.7	51.3	52.4	52.6	52.5	51.4	50.4	47.3						
500	44.4	46.5	47.7	49.7	51.0	52.4	52.8	52.9	51.7	50.3	46.8						
630	47.3	47.9	50.4	52.6	53.9	55.0	55.7	56.0	53.9	52.1	48.3						
800	48.2	49.3	51.2	52.5	54.3	55.7	56.8	55.9	54.4	51.6	49.5						
1000	45.6	47.9	49.8	52.8	54.7	56.3	57.4	57.5	56.3	53.2	44.4						
1250	48.4	50.5	52.7	55.5	57.8	59.2	59.8	60.1	58.1	55.7	45.8						
1600	54.7	58.3	59.5	62.1	64.2	64.8	65.6	64.6	63.1	61.7	58.6						
2000	51.5	53.9	56.1	59.2	62.8	63.9	64.1	63.2	60.4	58.1	48.9						
2500	50.8	53.2	55.7	60.1	62.4	64.7	64.7	63.2	61.9	56.6	49.4						
3150	52.9	55.2	57.9	62.1	64.6	67.2	67.9	67.1	66.7	61.8	49.4						
4000	49.1	52.7	55.4	60.4	62.7	65.8	65.6	65.3	62.9	57.3	48.8						
5030	46.5	52.4	55.3	59.9	62.7	65.7	65.3	64.9	62.7	56.6	44.8						
6350	45.2	48.4	51.8	56.6	59.6	62.8	62.6	62.9	60.8	53.8	41.4						
8000	42.8	46.1	49.2	54.5	57.8	59.8	60.7	60.4	58.6	51.1	38.4						
10000	39.1	43.5	47.2	53.1	55.6	57.9	58.8	58.6	56.9	48.6	34.4						
12500	35.8	39.2	43.4	48.2	52.1	53.6	55.3	55.3	52.8	43.6	28.1						
16000	28.4	33.5	36.5	41.9	45.6	48.8	49.2	49.2	44.9	34.4	18.9						
20000	21.9	27.2	31.3	36.6	40.1	42.2	43.7	43.5	40.6	26.4	8.6						
25000	13.1	19.1	22.8	29.1	32.8	33.9	34.8	33.3	27.5	12.1							
31500		6.9	11.1	17.9	21.4	23.6	23.2	20.6	12.5								
40000					3.3	5.4	5.8	0.6									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.6	64.9	66.5	70.9	72.3	74.3	74.6	74.2	72.7	68.5	60.8						
PNDB	75.1	77.6	79.9	83.8	86.1	88.3	88.8	88.3	87.2	82.6	72.2						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT SEC. NUM. DAY)

PROC. DATE - MONTH 11 DAY 25 HR. 10.5

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL IF. FT.	80																		
(S. M)	100	69.8	74.6	74.1	72.2	71.6	72.4	72.4	74.2	75.7	79.8	83.1							109.7
VEHICLE R-58	125	73.2	68.9	79.9	77.2	75.6	74.7	74.9	77.9	79.8	80.3	83.1							112.6
CONFIG GAD	160	71.5	72.4	72.6	73.2	73.4	73.9	75.9	77.7	79.8	81.3	83.1							111.6
LOC SCHENECTADY	200	71.8	78.9	71.6	72.7	74.9	76.9	77.4	79.1	80.8	82.6	84.3							112.1
DATE 11/22/74	250	73.8	74.1	75.1	75.9	77.1	77.4	78.8	79.6	80.2	81.8	83.3							112.6
RUN 22/9	315	76.8	78.4	77.1	77.7	77.4	78.6	78.3	79.6	80.8	81.6	82.8							113.8
TAPE	400	74.1	74.6	74.9	76.2	76.6	77.9	78.1	79.1	80.8	81.3	81.8							112.2
BAR 29.6 IN HG	500	72.3	72.4	72.6	74.2	76.1	77.4	78.4	79.7	80.8	81.1	80.4							111.7
(100122. N/M2)	630	74.4	74.6	75.4	77.4	78.9	80.4	81.6	82.4	82.2	82.1	80.9							114.1
TAMB 31. DEG F	800	75.6	75.4	76.4	77.7	79.1	80.4	81.6	82.9	82.5	82.3	80.1							114.3
(273. DEG K)	1000	73.1	74.4	75.1	77.4	79.4	81.0	82.6	83.9	84.2	82.6	79.1							114.9
THEV 29. DEG F	1250	74.9	75.2	77.6	80.0	81.9	83.7	85.1	86.1	86.2	84.4	80.1							117.2
(271. DEG K)	1600	80.4	81.7	84.6	87.3	90.2	91.3	92.1	92.6	91.5	90.4	82.9							123.6
RHOT 3.72 GM/M3	2000	80.9	81.7	84.1	86.6	89.7	91.3	91.8	92.6	91.8	89.7	83.6							123.7
(.00372 G/M3)	2500	79.2	80.2	82.1	84.1	86.5	91.0	91.1	91.1	90.8	85.7	81.8							122.7
RFA 6943. RPM	3150	80.7	81.7	84.1	86.2	91.5	92.5	94.3	93.9	95.4	90.2	85.3							125.7
(727. RAD/SEC)	4000	79.9	81.5	83.8	86.2	91.3	92.7	94.2	94.3	94.7	90.1	85.0							125.0
RPK 7136. RPM	5000	78.6	80.7	83.3	86.0	90.8	92.8	93.6	94.7	94.1	89.3	83.5							125.1
(747. RAB/SEC)	6300	76.2	78.5	81.2	85.3	88.4	90.5	91.9	93.8	92.9	87.3	82.8							123.6
RFB 6823. RPM	8000	74.6	77.2	80.1	84.5	87.1	89.4	91.8	92.3	92.8	87.8	81.9							123.0
(924. RAB/SEC)	10000	74.2	76.1	80.1	84.6	87.2	89.8	91.8	92.8	92.9	87.9	81.4							123.0
NO. OF BLADES 15	12500	72.9	75.8	78.2	82.7	86.3	88.1	90.9	91.9	91.9	85.9	81.1							122.4
FAN TIP SPEED	16000	70.4	72.7	74.6	79.8	84.8	85.8	87.4	90.1	88.9	83.4	79.8							120.5
695. FT/SEC	20000	64.5	71.9	74.1	79.8	83.5	84.8	87.7	90.4	90.9	84.1	78.4							121.3
	25000	68.6	71.1	73.1	78.4	82.9	83.7	86.2	88.7	89.1	82.7	77.2							120.4
	31500	68.3	70.8	71.7	77.8	82.5	82.7	85.5	87.6	87.8	81.6	75.2							120.3
	40000	66.8	67.9	70.1	74.6	79.9	80.1	83.2	84.8	84.3	79.5	71.8							118.7
	50000	67.8	67.7	68.2	71.8	78.1	78.3	79.8	79.7	80.3	76.8	67.5							118.0
	63000	69.8	67.2	68.5	68.7	73.5	73.8	74.5	74.2	74.2	71.8	63.8							118.1
	80000	70.6	69.2	69.8	71.1	73.1	73.8	75.0	76.8	75.8	73.4	66.3							120.6
OVERALL MEASURED																			
OVERALL CALCULATED		90.3	91.8	93.8	97.2	100.3	101.7	103.1	104.8	104.2	100.1	96.3							138.6
	PNLD	103.5	104.8	106.9	110.3	113.2	114.6	115.9	116.3	117.0	113.8	108.9							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 NO. 10.5

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 60																	
(60.96 M) 100	45.4	51.7	52.1	50.5	50.8	50.7	50.2	51.1	51.3	53.3	53.8						
VEHICLE R-55 125	51.5	58.1	57.7	55.4	54.0	52.8	52.6	54.0	54.4	53.7	52.9						
COMMIC W 48 160	47.7	49.5	50.4	51.3	51.6	52.8	53.5	54.4	54.3	54.5	52.8						
LOC SCHNAECTADY 200	47.1	47.9	49.3	50.7	53.1	54.9	54.9	55.8	55.2	55.8	53.7						
DATE 11/22/74 250	49.7	51.8	52.7	53.8	55.2	55.3	56.3	56.2	55.3	54.7	52.5						
RUN 22/0 315	51.9	53.2	54.8	55.6	55.7	56.5	55.7	56.1	55.0	54.3	51.5						
TAPE 400	49.8	51.4	52.3	54.8	54.6	55.7	55.4	55.8	54.9	53.9	50.3						
BAR 29.6 HG 500	47.9	49.8	50.8	51.9	54.8	55.1	55.5	55.9	54.7	53.5	48.8						
(00122. N/M2) 630	49.6	51.2	52.6	55.1	56.7	56.8	56.7	56.5	56.9	54.3	49.8						
TAMB 31. DEG F 800	53.9	51.8	53.5	55.2	56.8	57.8	58.5	58.9	56.9	54.4	49.8						
(273. DEG K) 1000	48.3	50.6	52.1	54.8	56.9	58.3	59.4	59.8	58.5	54.4	48.6						
TDET 20. DEG F 1250	49.8	51.5	54.5	57.3	59.3	60.9	61.8	61.8	60.3	55.8	47.3						
(271. DEG K) 1600	55.2	57.6	61.3	64.4	67.5	68.3	66.6	66.1	65.4	61.7	49.6						
HACT 3.72 GM/M3 2000	55.5	57.4	60.6	63.5	66.8	68.1	68.1	67.8	65.4	60.6	49.8						
(.00372 KG/M3) 2500	53.5	55.7	58.4	62.8	66.4	67.7	67.2	66.2	64.1	58.3	47.4						
NFA 6943. RPM 3150	54.7	56.8	60.1	64.6	68.1	68.8	70.1	68.6	66.7	60.3	50.4						
(727. RAD/SEC) 4000	53.3	56.2	59.4	64.2	67.5	68.7	69.8	68.5	67.1	59.5	49.8						
NFK 7138. RPM 5000	51.8	55.1	58.6	62.7	66.7	67.7	68.5	68.7	66.2	58.3	46.8						
(747. RAD/SEC) 6300	48.4	52.2	55.8	60.4	63.6	65.5	66.3	66.2	64.8	55.8	44.1						
NFB 8823. RPM 8000	45.5	49.8	53.5	58.5	61.3	63.3	64.2	64.1	62.4	53.6	40.6						
(924. RAD/SEC) 10000	43.1	46.7	51.9	57.1	59.8	61.4	62.6	62.1	60.4	50.1	36.2						
NO. OF BLADES 15 12500	39.8	43.2	47.7	52.9	56.8	58.3	59.1	59.3	56.3	45.1	30.1						
FAN TIP SPEED 16000	31.9	36.7	40.2	46.4	53.9	51.5	52.7	53.2	49.2	36.2	18.6						
868. FT/SEC 20000	24.9	30.5	34.8	41.6	45.6	46.5	47.9	47.8	43.6	28.4	5.6						
25000	15.3	21.8	26.5	33.3	38.2	38.4	39.1	38.1	32.2	14.9							
31500	2.2	9.4	14.6	22.7	27.9	27.4	27.7	25.1	17.8								
40000				4.5	18.6	9.7	9.8	3.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.4	67.1	69.6	73.8	76.1	77.3	77.8	77.4	75.7	69.9	63.2						
PNDB	77.4	79.9	82.6	86.6	89.7	90.8	91.6	90.8	89.9	83.1	74.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 3 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT.
(S. M)
VEHICLE R-SS
CONFIG 7
LOC SCHENECTADY
DATE 12/2/74
RUN 28/9
TAPE
BAR 29.2 HG
(98500. N/M2)
TAMB 47. DEG F
(281. DEG K)
TWET 43. DEG F
(279. DEG K)
HACT 6.14 GM/M3
(.00614 KG/M3)
NFA 7836. RPM
(821. RAD/SEC)
NFK 7930. RPM
(830. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
884. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																			
63																			
80																			
100	72.3	73.8	74.9	73.4	74.1	74.6	77.4	75.9	79.1	83.5	88.1								113.3
125	76.5	76.8	77.6	77.1	78.6	79.4	82.4	82.1	82.9	84.7	88.1								118.8
160	75.5	76.6	75.9	76.9	77.1	76.6	84.6	80.6	83.1	85.0	88.1								115.6
200	75.7	75.3	75.6	76.4	78.4	79.9	85.1	82.6	84.4	85.9	88.8								118.7
250	79.5	80.0	81.3	82.1	83.1	83.6	85.6	86.3	86.4	87.9	89.8								119.8
315	79.3	79.8	80.1	80.4	81.1	80.9	84.1	82.9	84.1	85.4	87.3								118.9
400	77.8	78.3	78.3	78.9	79.1	79.6	85.8	82.4	83.6	85.0	88.3								118.5
500	76.1	76.8	77.1	78.1	78.8	79.9	82.3	83.1	83.9	84.5	85.3								115.6
630	76.6	77.6	78.1	79.1	80.4	82.2	83.3	84.4	84.9	84.7	85.1								118.5
800	80.8	80.6	81.1	80.9	81.9	82.7	90.1	84.9	84.9	85.2	85.3								118.9
1000	75.9	76.3	76.8	77.9	79.1	80.4	90.3	83.1	84.1	83.5	83.1								117.7
1250	74.9	74.8	75.6	77.2	78.4	79.4	87.3	82.6	83.0	83.0	82.3								116.1
1600	74.1	74.9	75.3	77.0	78.2	79.4	84.1	81.3	82.7	81.3	80.8								114.4
2000	76.9	77.9	78.1	79.0	79.5	80.5	82.3	85.1	86.9	84.8	82.3								118.5
2500	72.9	73.9	74.8	77.3	78.0	79.5	80.0	80.1	82.1	79.8	79.8								113.1
3150	71.9	72.9	73.5	75.3	77.5	78.7	79.0	79.3	82.8	79.2	77.8								112.5
4000	72.8	72.8	73.7	76.3	78.7	79.8	80.7	82.9	86.8	81.7	78.4								115.8
5000	71.5	72.1	73.4	75.3	77.4	79.1	81.8	83.4	86.0	81.1	78.1								114.8
6300	72.3	73.6	74.4	76.9	79.3	82.3	86.6	87.2	90.7	83.6	78.9								118.8
8000	73.2	74.8	75.9	78.6	81.4	83.5	87.4	90.4	93.1	86.5	81.3								121.8
10000	74.5	74.3	76.4	79.4	82.8	84.3	88.6	91.1	91.7	85.3	80.9								121.1
12500	76.7	77.5	78.5	82.9	86.7	88.4	92.2	93.7	93.9	87.4	82.9								124.1
16000	74.5	76.2	79.4	84.1	87.3	89.1	91.5	93.2	92.4	85.4	81.6								123.9
20000	75.2	76.3	80.1	84.7	87.9	90.5	92.9	95.0	94.8	87.7	83.5								126.0
25000	75.8	76.6	78.0	82.5	85.5	87.8	91.1	93.3	94.1	86.7	82.5								125.1
31500	74.8	74.8	77.2	80.3	83.5	86.2	88.7	91.5	91.4	84.5	79.3								122.8
40000	74.8	74.1	75.8	77.5	80.5	82.9	86.3	87.1	88.0	81.9	74.4								121.8
50000	77.1	75.2	77.4	76.0	78.5	79.8	83.3	82.9	83.0	78.7	73.2								120.4
63000	80.8	75.6	79.1	76.5	77.3	77.4	79.8	77.8	78.7	78.3	74.0								121.0
80000	83.4	78.2	81.9	79.1	79.3	79.8	80.3	79.1	78.8	77.8	77.8								127.8
OVERALL MEASURED																			
OVERALL CALCULATED	91.5	91.4	92.6	94.2	96.5	98.2	101.8	102.7	103.4	98.2	96.6								135.4
PNDB	99.9	100.7	101.2	102.6	104.4	105.8	109.3	109.7	110.2	105.2	103.8								

LOW FREQ

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-SS
CONFIG 7
LOC SCHENECTADY
DATE 12/2/74
RUN 26/9
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 47. DEG F (281. DEG K)
THET 43. DEG F (279. DEG K)
HACT 6.14 GM/M3 (.00814 KG/M3)
NFA 7038. RPM (821. RAD/SEC)
NFK 7930. RPM (830. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 884. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53 (0.92)	62 (1.08)	71 (1.24)	81 (1.41)	91 (1.58)	101 (1.76)	111 (1.94)	122 (2.13)	133 (2.32)	145 (2.52)	156 (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																		
63																		
80																		
100	48.6	51.1	52.8	51.7	52.5	52.9	55.1	52.8	54.7	54.0	50.0							
125	52.7	56.0	55.4	55.1	57.0	57.6	60.1	59.0	58.4	58.0	57.0							
160	51.6	53.7	53.6	55.0	59.4	54.7	62.2	57.4	58.5	58.1	57.0							
200	51.8	52.3	53.3	54.4	56.6	57.9	62.6	59.3	59.6	59.0	58.1							
250	55.4	57.0	58.9	60.1	61.2	61.5	63.1	62.9	61.5	60.8	58.2							
315	55.1	56.6	57.6	58.3	59.1	58.7	61.5	59.3	59.2	58.2	56.2							
400	53.5	55.0	55.8	56.7	57.1	57.4	63.1	58.7	58.5	57.5	55.0							
500	51.7	53.4	54.4	55.9	56.5	57.6	59.5	59.4	58.7	56.9	53.7							
630	52.1	54.1	55.3	56.8	58.2	59.7	60.4	60.5	59.5	57.0	53.2							
800	56.2	57.0	58.2	58.4	59.5	60.1	67.0	60.9	59.4	57.2	53.2							
1000	51.0	52.6	53.6	55.3	56.7	57.6	67.1	59.0	58.4	55.3	50.6							
1250	49.9	50.9	52.4	54.5	55.8	56.6	64.8	58.3	58.0	54.6	49.5							
1600	48.9	50.8	52.0	54.1	55.4	56.5	60.6	58.8	58.5	52.5	47.6							
2000	51.4	53.6	54.5	55.9	56.5	57.3	58.6	60.4	60.5	55.0	48.6							
2500	47.2	49.4	51.1	54.0	55.9	56.1	56.1	55.1	55.5	50.4	44.8							
3150	45.8	48.1	49.5	51.8	54.1	55.1	54.8	54.0	55.9	49.4	42.8							
4000	45.5	47.5	49.3	52.3	54.9	55.8	56.0	57.2	59.2	51.1	42.4							
5000	44.6	46.5	48.7	51.9	53.4	54.8	57.0	57.3	58.1	50.1	41.5							
6300	44.5	47.2	48.9	52.0	54.5	57.3	60.0	60.3	61.8	51.3	40.5							
8000	44.0	47.2	49.3	52.6	55.6	57.4	60.6	62.2	62.7	52.3	40.8							
10000	43.4	45.8	48.2	51.9	55.4	56.7	60.2	61.1	59.2	48.4	35.7							
12500	42.8	45.7	49.0	53.2	57.1	58.6	61.4	61.1	58.3	46.6	31.9							
16000	35.9	40.2	45.0	50.7	54.2	55.6	56.8	56.3	51.7	38.2	21.2							
20000	30.6	34.9	40.7	46.5	50.8	52.1	53.1	52.5	47.8	31.9	10.8							
25000	22.4	27.4	31.4	37.4	40.8	42.5	43.9	42.7	37.3	18.8								
31500	8.8	14.1	20.1	25.1	28.9	30.8	30.9	29.0	20.6									
40000			3.0	7.4	11.2	12.8	12.5	6.9										
50000																		
63000																		
80000																		
OVERALL CALCULATED	64.6	66.3	67.5	68.8	70.3	71.2	75.3	73.8	72.8	66.3	66.0							
PNDB	74.0	76.0	77.3	79.1	80.9	81.8	84.7	83.7	84.4	78.8	73.8							

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LOW FREQ.

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 YR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.0	72.1	71.6	70.9	70.9	71.9	74.1	72.9	78.5	81.1	84.4							118.2
VEHICLE R-55	125	75.0	80.1	78.4	76.2	74.0	75.2	76.6	77.9	79.8	81.1	83.8							112.6
CONFIG 7	160	72.3	73.1	72.6	73.9	73.9	73.9	78.4	77.2	80.6	82.1	84.1							111.7
LOC SCHENECTADY	200	71.0	71.1	71.4	72.9	74.6	76.4	78.9	79.4	81.0	83.6	86.1							112.9
DATE 12/2/74	250	74.3	74.9	75.9	76.4	77.4	77.4	80.3	79.9	81.0	82.8	83.8							113.4
RUN 20/10	315	75.8	76.9	76.6	77.4	77.9	77.9	81.1	79.4	80.2	82.3	83.3							113.6
TAPE	400	73.8	74.9	75.1	75.9	76.1	76.7	79.9	78.4	79.5	81.8	82.6							112.9
BAR 29.2 HG	500	72.1	72.6	72.6	74.2	75.4	76.4	81.6	79.2	80.2	81.6	81.6							112.6
(98500. N/M2)	630	73.1	73.4	74.6	75.9	77.2	79.2	82.9	81.4	82.5	82.1	81.1							114.0
TAMB 47. DEG F	800	74.6	74.9	75.4	76.2	77.9	78.9	80.6	81.1	82.8	81.8	80.4							113.5
(281. DEG K)	1000	71.9	72.4	72.6	74.2	75.6	77.2	79.8	80.4	81.5	81.1	79.1							112.3
THET 43. DEG F	1250	70.7	71.4	71.9	73.7	74.9	76.5	78.8	79.4	81.2	81.1	78.6							111.7
(279. DEG K)	1600	70.9	71.7	72.6	75.0	76.2	77.2	78.6	79.4	81.5	80.9	77.6							111.9
HACT 6.14 GM/M3	2000	70.9	71.9	72.4	74.6	75.9	76.2	77.6	78.6	81.0	80.1	77.1							111.3
(.00614 KG/M3)	2500	69.2	70.4	71.1	73.8	75.7	76.0	76.3	75.3	78.0	76.6	75.1							109.4
NFA 7863. RPM	3150	68.4	68.9	69.3	71.9	74.0	75.7	76.3	75.8	80.2	77.1	74.6							109.5
(739. RAD/SEC)	4000	67.6	68.7	69.8	72.6	74.7	76.2	77.4	79.2	82.9	79.1	74.7							111.4
NFK 7146. RPM	5000	67.3	68.9	69.2	72.3	74.7	76.6	80.9	81.4	83.6	80.0	75.7							112.7
(748. RAD/SEC)	6300	68.6	69.7	70.9	73.7	76.0	78.9	82.6	84.7	87.1	83.0	77.2							115.5
NFB 6823. RPM	8000	69.5	71.6	72.7	75.7	78.2	81.8	85.4	87.7	89.7	85.2	78.8							118.3
(924. RAD/SEC)	10060	69.7	71.7	73.2	77.2	79.8	82.8	86.4	88.4	89.8	84.7	78.7							118.9
NO. OF BLADES 15	12500	72.5	75.1	76.5	82.5	85.7	87.7	89.7	91.2	91.5	86.3	81.2							122.1
FAN TIP SPEED	16000	71.5	74.3	77.4	83.1	86.3	88.9	90.3	91.5	91.8	84.6	80.4							122.6
617. FT/SEC	20000	69.5	72.4	75.1	80.8	83.2	85.8	89.4	91.6	92.4	85.3	80.3							122.7
	25000	68.5	70.2	72.3	77.6	80.7	83.3	86.1	88.9	89.4	83.3	78.1							120.5
	31500	66.6	68.1	70.8	75.6	79.0	81.7	84.5	86.5	87.7	81.3	75.1							119.5
	40000	66.8	66.7	69.1	72.8	76.3	78.9	81.8	83.4	84.6	79.8	69.9							117.9
	50000	68.9	66.5	69.0	70.8	72.6	74.9	78.6	78.2	79.6	78.1	66.2							115.8
	63000	71.8	68.9	69.7	67.6	69.3	70.9	73.1	72.0	73.5	60.7	65.3							113.8
	80000	73.7	71.8	72.6	69.1	69.3	69.9	70.6	69.4	69.8	66.8	67.8							117.4
OVERALL MEASURED																			
OVERALL CALCULATED		86.3	87.7	88.3	91.1	93.3	95.4	98.8	99.4	100.4	96.7	95.8							131.4
	PNDB	95.3	96.5	97.8	99.2	100.8	102.8	105.8	106.5	106.7	104.4	103.3							

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 7
LOC SCHENECTADY
DATE 12/2/74
RUN 20/10
TAPE
BAR 29.2 HG (98800. N/M2)
TAMB 47. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.14 GM/MJ (.00614 KG/MJ)
NPA 7063. RPM (739. RAD/SEC)
NFK 7146. RPM (748. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 617. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.4	49.4	49.8	49.2	49.3	50.2	51.9	49.8	52.0	54.5	54.3						
125	51.3	57.3	56.2	54.4	53.0	53.3	54.3	54.8	54.4	54.4	53.4						
160	48.4	50.2	50.4	52.1	52.1	52.0	54.0	53.9	55.3	55.3	53.8						
200	47.1	48.1	49.1	51.0	52.8	54.4	56.4	56.1	56.2	56.6	54.4						
250	50.2	51.8	53.5	54.4	55.5	55.3	57.8	56.5	56.1	55.7	53.0						
315	51.6	53.7	54.1	55.3	55.9	55.8	58.5	55.9	55.2	55.1	52.3						
400	49.5	51.6	52.6	53.7	54.1	54.4	57.1	54.8	54.4	54.4	51.3						
500	47.7	49.3	50.0	51.9	53.2	54.1	56.8	55.4	55.0	54.0	50.0						
630	48.6	49.9	51.9	53.6	54.9	56.8	59.9	57.6	57.1	54.3	49.3						
800	49.9	51.3	52.5	53.7	55.5	56.4	57.5	57.2	56.4	53.9	48.2						
1000	47.1	48.6	49.6	51.6	53.2	54.5	56.7	56.2	55.8	52.9	46.6						
1250	45.7	47.5	48.7	51.0	52.3	53.7	55.5	55.1	55.3	52.7	45.8						
1600	45.7	47.6	49.3	52.1	53.4	54.3	55.1	54.9	55.4	52.2	44.3						
2000	45.5	47.6	48.8	51.5	52.5	53.1	53.9	53.9	54.6	51.1	43.4						
2500	43.5	45.9	47.4	50.6	52.6	52.7	52.4	50.4	51.4	47.3	40.9						
3150	42.4	44.1	45.3	48.3	50.6	52.1	52.1	50.6	53.2	47.3	39.6						
4000	41.0	43.4	45.3	48.6	50.9	52.2	52.8	53.5	55.3	48.5	38.7						
5000	40.4	43.3	44.5	48.1	50.6	52.4	56.0	55.4	55.7	49.0	39.0						
6300	40.8	43.3	45.4	48.8	51.3	53.9	57.0	57.6	56.2	50.7	38.8						
8000	40.3	44.0	46.1	49.6	52.4	55.7	58.6	59.5	59.3	50.9	37.5						
10000	38.7	42.3	45.0	49.7	52.4	55.2	58.0	58.4	57.2	47.8	33.5						
12500	36.6	43.2	46.0	52.7	56.1	57.9	58.9	58.6	55.6	45.4	30.2						
16000	33.0	38.3	43.0	49.7	53.2	55.4	55.6	54.6	50.3	37.3	20.6						
20000	24.9	30.9	35.7	42.6	45.3	47.4	49.6	49.0	45.0	29.6	7.6						
25000	15.2	21.0	25.7	32.5	36.1	36.1	39.0	38.2	32.6	15.5							
31500	0.5	7.5	13.6	20.4	24.4	26.3	26.7	24.0	17.0								
40000				2.7	7.0	6.5	8.0	3.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.5	63.2	63.9	69.5	67.0	68.2	70.3	69.6	69.3	66.4	62.9						
PNDB	69.2	71.7	73.0	75.7	77.4	78.5	80.7	80.6	80.9	78.6	68.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 15.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(S. N)	100	73.0	75.6	73.4	70.9	68.6	69.4	71.4	70.7	73.5	76.8	79.9								107.8
VEHICLE R-SS	125	68.3	71.9	72.6	70.9	71.9	70.4	72.4	73.9	75.0	76.6	79.4								107.8
CONFIG 7	160	68.8	69.9	69.4	70.7	71.4	70.4	73.4	73.7	75.7	78.3	80.1								108.1
LOC SCHENECTADY	200	68.0	68.4	69.1	70.4	71.9	73.9	75.4	76.1	77.0	79.3	81.1								109.3
DATE 12/2/74	250	71.0	71.4	72.4	72.9	74.4	74.4	76.1	76.1	77.8	78.6	79.6								109.7
RUN 28/11	315	72.5	73.4	73.1	74.2	74.4	74.4	75.6	75.4	76.2	78.6	78.8								109.6
TAPE	400	70.3	71.6	71.4	71.9	72.6	73.2	76.9	75.1	76.5	77.8	78.3								108.9
BAR 29.2 HG	500	68.6	70.1	69.9	71.4	71.9	73.4	77.1	75.7	76.7	77.8	77.6								108.8
(98500. N/M2)	630	70.1	70.9	72.1	73.2	74.4	76.2	79.6	78.9	79.2	79.8	77.9								111.1
TAMB 47. DEG F	800	72.1	72.6	73.4	73.4	75.1	75.9	77.8	78.4	78.7	78.8	77.4								110.6
(281. DEG K)	1000	68.1	69.1	69.9	71.7	73.1	74.7	77.6	77.9	79.2	78.8	75.6								109.8
THET 43. DEG F	1250	66.9	67.7	68.6	70.7	72.2	73.5	76.8	76.9	78.2	78.9	74.9								108.9
(279. DEG K)	1600	68.2	68.7	69.6	72.0	73.2	76.0	77.6	78.6	80.6	80.9	78.1								110.6
HACT 6.14 GM/M3	2000	67.7	68.7	69.1	70.1	70.7	71.7	73.3	73.1	75.0	75.0	72.6								106.5
(.00614 KG/M3)	2500	65.9	66.9	67.4	70.3	71.7	73.2	73.3	73.8	73.7	73.6	70.6								105.9
NFA 6269. RPM	3150	64.9	65.9	66.3	68.9	71.0	73.0	73.3	73.1	70.0	70.1	71.3								107.1
(656. RAD/SEC)	4000	64.3	65.7	66.3	69.1	71.2	73.9	74.2	76.0	79.4	78.6	71.7								109.1
NFK 6343. RPM	5000	64.5	65.1	66.2	68.8	70.8	73.9	77.9	78.9	81.1	78.8	73.4								110.1
(664. RAD/SEC)	6300	66.1	67.2	68.4	71.2	73.3	76.9	80.1	81.7	84.6	81.5	75.0								113.1
NFB 6823. RPM	8000	66.7	68.6	69.7	72.7	75.5	79.8	82.4	84.4	86.4	83.2	77.1								115.4
(924. RAD/SEC)	10000	68.2	69.9	72.2	77.0	80.0	82.8	85.1	86.1	87.8	83.9	78.5								117.8
NO. OF BLADES 15	12500	75.0	76.3	79.8	85.5	89.9	92.5	91.5	92.7	91.7	87.3	84.4								124.3
FAN TIP SPEED	16000	68.7	70.3	73.4	79.1	83.6	86.4	88.5	89.8	89.5	83.3	78.4								120.8
947. FT/SEC	20000	67.5	68.4	71.1	76.3	79.9	82.8	85.9	88.3	90.6	83.8	77.0								120.0
	25000	66.3	67.8	68.8	72.6	76.5	79.3	82.8	84.9	85.9	80.0	75.1								116.8
	31500	65.4	65.3	66.8	71.4	75.9	77.7	80.5	82.3	83.2	78.1	71.9								115.4
	40000	65.6	64.7	66.3	69.3	72.5	75.4	78.3	78.9	80.8	75.8	68.9								114.2
	50000	66.7	65.5	68.5	67.3	70.1	71.6	74.8	74.2	75.8	72.6	65.5								112.3
	63000	70.6	66.2	69.7	66.8	68.5	68.4	70.8	68.8	70.7	68.2	60.3								112.2
	80000	73.4	69.2	72.0	69.1	69.3	69.9	70.3	69.2	68.6	68.5	60.8								117.1
OVERALL MEASURED																				
OVERALL CALCULATED		84.2	85.0	86.2	89.4	92.8	95.3	96.3	97.4	98.3	94.8	92.1								120.7
PNOB		92.2	93.2	93.9	96.8	98.8	100.1	102.6	103.5	105.8	104.2	100.3								

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OF POOR QUALITY

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 3 HR. 11.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 7
LOC SCHENECTADY
DATE 12/2/74
RUN 26/11
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 47. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.14 GM/M3 (.00614 KG/M3)
NFA 6269. RPM (656. RAD/SEC)
NFK 6343. RPM (664. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 547. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.4	52.9	51.3	49.2	47.0	47.7	49.2	47.6	49.0	50.3	49.8						
125	44.5	49.1	50.5	49.1	50.2	48.6	50.1	50.8	50.4	49.9	49.1						
160	44.9	47.0	47.2	48.8	49.6	48.5	51.0	50.4	51.1	51.5	49.6						
200	44.1	45.4	46.4	48.5	50.1	51.9	52.9	52.8	52.2	52.4	50.4						
250	47.0	48.3	50.0	50.9	52.5	52.3	53.6	52.7	52.6	51.5	48.7						
315	48.4	50.2	50.8	52.1	52.4	52.3	53.0	51.9	51.2	51.3	47.8						
400	46.0	48.4	48.8	49.7	50.6	50.9	54.1	51.5	51.4	50.4	47.0						
500	44.2	46.8	47.2	49.2	49.7	51.1	54.3	51.9	51.5	50.3	46.0						
630	45.6	47.4	49.4	50.8	52.2	53.8	56.7	55.1	53.9	52.1	46.0						
800	47.4	49.0	50.5	51.0	52.8	53.4	54.8	54.4	53.2	50.9	45.2						
1000	43.3	45.4	46.8	49.1	50.7	52.0	54.4	53.7	53.5	50.7	43.1						
1250	41.9	43.7	45.5	48.0	49.6	50.7	52.5	52.6	52.3	50.4	42.0						
1600	42.9	44.6	46.3	49.1	52.4	53.0	54.1	54.1	54.4	52.2	41.8						
2000	42.2	44.4	45.6	47.0	47.8	48.6	49.6	48.4	48.6	46.6	38.9						
2500	40.2	42.4	43.6	47.1	48.6	49.9	49.4	46.9	47.1	44.3	36.6						
3150	38.9	41.1	42.3	45.3	47.6	49.4	49.1	47.8	51.0	46.3	36.4						
4000	37.8	40.4	41.8	45.1	47.4	48.9	49.5	50.2	51.8	46.0	35.7						
5000	37.7	39.5	41.5	44.6	46.9	49.6	53.0	52.9	53.2	47.0	36.8						
6300	38.3	40.8	42.9	46.3	48.5	51.9	54.5	54.8	55.7	49.2	38.6						
8000	37.8	41.0	43.1	46.6	49.6	53.7	55.6	56.3	56.0	48.9	35.8						
10000	37.2	40.6	44.0	49.4	52.7	55.2	56.7	56.2	55.2	47.0	33.3						
12500	41.1	44.5	49.2	55.7	60.4	62.6	60.7	60.1	56.1	46.4	33.5						
16000	30.2	34.3	39.3	45.7	50.5	52.9	53.8	52.1	48.8	36.0	18.8						
20000	22.9	26.9	31.7	38.1	42.9	44.4	46.1	45.8	43.3	28.1	6.1						
25000	13.8	17.7	21.4	27.5	31.8	34.1	35.7	34.2	29.1	12.7							
31500		4.7	9.6	16.2	20.4	22.3	22.7	19.8	12.8								
40000					3.2	5.0	4.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.7	60.1	61.1	63.1	66.4	67.1	67.8	67.2	66.4	63.3	56.8						
PNDB	66.0	68.4	69.8	72.4	74.2	76.9	77.8	77.5	77.0	73.5	66.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 11.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DATA)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
50																			
63																			
80																			
100	65.0	68.4	73.4	75.9	75.4	74.2	71.9	71.4	68.7	73.3	76.6								107.5
125	66.3	70.4	73.9	68.9	69.6	67.9	68.6	75.4	71.5	73.1	76.1								105.6
160	65.8	66.6	69.1	67.4	68.6	67.9	69.4	75.9	72.0	73.8	75.6								105.4
200	65.5	66.4	69.4	67.4	69.1	69.9	71.4	75.6	74.2	75.6	77.3								106.4
250	68.8	68.6	69.6	70.1	70.6	71.4	72.6	76.6	73.5	74.8	75.6								106.8
315	69.0	69.9	70.1	70.4	71.4	71.4	71.6	74.1	72.7	74.1	77.3								106.5
400	67.8	68.9	70.9	69.4	69.9	70.2	71.4	75.1	73.0	74.1	75.8								106.2
500	66.1	67.6	69.1	68.4	69.4	70.2	72.1	79.7	73.5	74.6	74.8								107.4
630	67.6	68.6	70.4	70.7	71.9	73.4	75.4	79.2	76.7	76.8	74.4								108.8
800	70.9	71.1	71.6	71.2	72.6	73.4	75.6	82.6	76.5	76.6	74.1								110.3
1000	69.4	68.9	67.4	68.4	70.1	71.9	74.1	78.8	77.0	76.8	72.1								107.2
1250	65.2	65.7	66.6	70.0	70.7	72.8	75.1	78.9	78.7	79.6	73.9								109.1
1600	63.7	64.4	66.9	67.3	68.5	69.7	72.6	78.1	74.2	75.4	70.8								105.8
2000	65.9	66.9	68.9	67.6	68.5	69.8	69.8	69.9	71.0	71.9	69.1								103.5
2500	62.7	63.7	66.6	66.8	68.5	70.2	69.8	69.3	70.7	71.1	67.6								103.2
3150	61.6	61.9	64.1	64.4	67.8	68.5	68.8	69.1	71.7	72.1	66.8								102.6
4000	61.8	62.9	64.5	65.6	68.2	69.9	70.4	73.2	77.1	77.8	70.7								106.9
5000	61.8	62.4	64.2	65.1	67.9	70.1	73.4	75.7	76.1	76.8	70.2								106.2
6300	63.8	64.7	66.6	67.9	70.5	73.1	75.9	79.5	80.8	79.7	73.2								110.3
8000	64.7	66.3	68.4	69.8	73.8	76.3	78.6	81.4	82.7	81.2	74.6								112.2
10000	69.7	71.2	74.2	79.8	83.3	84.8	86.4	87.4	88.8	84.9	81.7								118.8
12500	73.5	75.6	78.8	83.5	90.4	91.5	90.7	90.8	90.8	85.8	81.2								123.8
16000	65.7	67.5	69.6	74.6	79.3	81.4	83.8	85.5	85.5	81.3	75.8								116.4
20000	65.2	65.1	66.8	71.5	75.4	77.8	81.4	84.1	85.9	80.8	74.6								115.6
25000	65.5	65.3	65.8	68.8	72.5	74.6	77.8	80.9	82.7	78.8	71.8								113.1
31500	64.8	64.3	65.0	67.9	71.8	73.7	76.2	77.8	79.2	76.1	68.8								111.2
40000	65.3	63.9	64.8	68.8	68.8	70.7	73.3	75.4	76.3	73.8	66.4								110.2
50000	68.4	65.8	67.2	68.8	67.3	68.4	70.6	70.5	72.1	69.8	63.8								109.2
63000	70.0	68.7	69.4	66.8	67.8	67.2	68.1	67.8	68.0	66.8	64.3								111.0
80000	73.4	69.2	72.8	69.1	68.3	68.9	70.3	68.2	68.1	66.8	67.8								117.1
OVERALL MEASURED																			
OVERALL CALCULATED	83.3	82.8	86.5	87.8	93.4	93.8	94.1	96.4	95.5	93.8	89.6								127.7
PNLB	88.8	90.8	93.2	94.8	97.6	99.8	100.6	102.8	102.9	102.2	98.7								

??

MG

2?

LOW FREQ ?? 100 - 500 HZ

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R=55
CONFIG 7
LOC SCHENECTADY
DATE 12/2/74
RUN 26/12
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 47. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 4.14 GM/M3 (.00614 KG/M3)
NFA 5492. RPM (575. RAD/SEC)
NPK 5557. RPM (582. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 479. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	41.4	45.7	5[illegible].3	54.2	53.8	52.4	49.7	48.3	44.3	46.8	46.5						
125	42.5	47.6	4[illegible].7	47.1	48.0	46.1	46.3	52.3	46.9	46.4	45.9						
160	41.9	43.7	4[illegible].9	45.6	46.9	46.0	47.0	52.7	47.3	47.0	45.1						
200	41.6	43.4	4[illegible].1	45.5	47.3	47.9	48.9	52.3	49.5	48.6	46.7						
250	44.7	45.5	4[illegible].2	48.1	48.7	49.3	50.3	53.2	48.6	47.7	44.7						
315	44.9	46.7	4[illegible].6	48.3	49.4	49.3	49.0	50.6	47.7	46.8	46.3						
400	43.3	45.6	4[illegible].3	47.2	47.8	47.9	48.6	51.5	47.9	46.7	44.5						
500	41.7	44.3	4[illegible].5	46.2	47.2	47.9	49.3	55.9	48.2	47.0	43.0						
630	43.1	45.2	4[illegible].6	48.3	49.7	51.0	52.4	55.3	51.4	49.1	42.5						
800	46.2	47.5	4[illegible].7	48.7	50.3	50.9	52.5	58.7	50.9	48.6	42.0						
1000	40.6	43.1	4[illegible].3	45.8	47.7	49.3	50.9	51.5	51.3	48.4	39.8						
1250	40.2	41.7	4[illegible].5	47.3	48.1	49.2	51.8	54.6	52.8	51.2	41.0						
1600	38.4	40.3	4[illegible].5	44.6	45.7	46.8	49.1	5[illegible].6	48.1	46.7	37.3						
2000	40.5	42.6	4[illegible].3	44.5	45.5	45.9	48.1	45.2	44.6	42.8	35.4						
2500	37.0	39.2	4[illegible].9	43.6	45.4	46.9	48.9	44.4	44.1	41.8	33.4						
3150	35.6	37.1	4[illegible].1	40.8	43.6	44.9	44.6	43.8	44.7	42.3	31.9						
4000	35.3	37.6	5[illegible].1	41.6	44.4	45.9	45.8	47.5	49.6	47.2	34.7						
5000	34.9	36.8	5[illegible].5	40.8	43.9	45.9	48.5	49.6	48.2	45.8	33.5						
6300	36.1	38.3	4[illegible].2	43.0	45.8	46.1	50.2	52.6	51.9	47.4	34.0						
8000	35.6	38.7	4[illegible].0	43.9	47.1	50.2	51.8	53.3	52.3	46.9	33.3						
10000	36.7	41.8	4[illegible].0	51.4	55.9	57.2	58.0	57.4	55.5	48.0	36.5						
12500	39.6	43.7	4[illegible].5	53.7	60.9	61.8	59.9	57.4	54.3	44.7	38.2						
16000	27.2	31.5	3[illegible].3	41.2	48.2	47.9	49.1	48.6	44.8	34.8	18.2						
20000	20.6	23.7	2[illegible].4	33.3	37.5	39.4	41.6	41.5	38.8	28.1	1.8						
25000	12.2	16.2	1[illegible].2	23.7	27.8	29.3	30.7	30.2	28.9	18.7							
31500		3.7	[illegible].9	12.7	16.4	18.3	17.4	15.3	8.8								
40000						0.3											
50000																	
63000																	
80000																	
OVERALL CALCULATED	54.8	57.1	6[illegible].8	61.6	64.7	65.6	66.4	66.9	63.7	60.7	55.6						
PNDB	63.8	68.8	7[illegible].7	69.8	72.6	73.7	74.8	76.2	74.4	71.8	62.3						

?? LOWER FREQ

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 YR. 74.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.3	80.1	80.4	68.7	83.6	81.9	78.9	73.4	71.2	75.1	78.4							113.3
125	66.0	75.9	71.4	58.2	72.4	66.9	68.1	70.7	71.2	72.3	74.6							109.5
160	68.0	74.1	65.9	58.2	68.1	67.2	68.6	69.4	71.2	73.3	74.4							104.2
200	65.0	74.1	66.1	59.4	67.9	68.9	70.9	71.9	73.0	75.3	78.0							105.8
250	67.5	73.4	69.9	61.1	70.4	70.4	72.1	72.4	73.5	74.0	75.1							106.0
315	68.5	74.6	78.1	58.2	70.6	70.9	71.8	71.6	72.7	74.1	73.8							109.9
400	67.6	73.6	68.6	58.7	69.4	70.2	71.4	71.9	72.5	74.1	73.8							105.4
500	65.6	70.9	66.4	60.4	68.9	70.2	72.1	72.7	74.8	74.6	73.4							103.3
630	67.6	71.9	69.4	61.7	72.2	73.4	75.6	75.9	76.2	76.6	74.1							107.9
800	70.6	73.6	72.1	65.2	73.6	75.2	76.6	76.9	77.7	77.6	74.9							109.3
1000	66.1	70.4	67.6	59.9	72.4	74.7	77.8	78.9	79.7	80.8	78.1							110.3
1250	67.9	70.2	70.1	60.2	79.9	81.7	84.8	85.1	83.5	84.4	77.4							115.6
1600	64.7	67.4	66.6	58.3	74.2	76.8	78.8	78.4	76.7	78.1	72.1							109.8
2000	64.9	69.4	66.4	61.3	68.8	69.8	70.1	69.9	70.5	72.1	68.8							103.2
2500	62.6	66.7	64.1	58.3	68.7	69.5	70.3	70.1	71.8	72.6	67.8							103.1
3150	60.6	64.9	62.6	58.4	68.8	67.7	68.7	69.1	72.8	72.9	66.3							102.4
4000	61.8	64.6	63.5	58.3	68.8	70.2	71.2	74.8	76.9	77.8	70.8							106.3
5000	61.8	66.4	63.2	58.3	67.2	69.9	74.3	76.1	78.8	77.5	70.4							107.8
6300	64.1	67.7	65.9	58.4	70.5	73.6	77.1	79.9	80.6	80.8	73.2							110.4
8000	64.7	68.6	67.6	58.9	73.2	77.8	79.6	81.9	82.9	82.4	75.3							112.7
10000	69.2	72.9	73.9	64.7	82.7	84.6	86.1	87.1	87.7	84.9	80.7							118.3
12500	73.7	78.3	78.8	70.4	88.4	90.4	89.8	90.2	89.4	88.7	88.4							122.1
16000	65.8	68.7	69.1	62.3	78.8	80.8	83.7	85.2	85.4	81.5	78.6							116.2
20000	65.4	67.8	67.8	61.2	75.1	77.9	81.6	84.2	85.8	81.2	74.8							115.6
25000	64.4	66.6	65.4	61.7	71.6	74.2	77.7	80.8	81.1	77.2	71.2							112.1
31500	64.2	64.7	64.4	60.5	70.6	73.8	76.4	78.4	79.1	75.7	68.5							111.5
40000	64.9	64.3	64.9	60.9	68.1	70.8	73.6	75.8	76.9	73.1	64.3							110.2
50000	67.9	65.4	67.4	63.7	67.9	68.1	70.8	72.4	72.8	69.8	63.2							109.1
63000	70.2	66.1	69.1	65.3	67.5	67.1	69.6	67.3	68.8	66.7	64.8							110.9
80000	73.5	69.6	72.8	69.2	69.4	69.9	70.4	69.2	68.1	68.5	67.1							117.2
OVERALL MEASURED																		
OVERALL CALCULATED	82.8	87.1	85.9	77.9	92.8	93.5	94.5	95.3	96.5	93.6	89.1							127.7
PNDB	89.7	94.7	92.4	84.7	99.1	99.7	101.5	102.4	103.1	102.9	98.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 NO. 15.1

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	50.6	57.4	58.3	47.0	62.0	60.2	56.7	50.3	46.6	46.5	46.3						
125	42.3	53.1	49.2	36.4	50.7	45.1	45.8	47.5	46.7	45.7	44.4						
160	41.2	51.2	43.7	36.3	40.4	45.3	46.2	46.2	46.6	46.5	43.9						
200	41.1	51.1	43.8	37.5	46.1	46.9	48.4	48.6	48.2	48.4	45.2						
250	43.5	56.3	47.5	39.1	48.5	48.3	49.6	49.0	48.6	47.8	44.2						
315	44.4	51.5	47.6	36.1	48.7	48.8	49.2	48.1	47.7	46.8	42.8						
400	43.3	50.4	46.1	36.5	47.3	47.9	48.6	48.3	47.4	46.7	42.5						
500	41.2	47.5	43.7	38.2	46.7	47.9	49.3	48.9	48.7	47.9	41.8						
630	43.1	48.4	46.6	39.3	49.9	51.0	52.7	52.0	50.9	48.8	42.3						
800	45.9	50.0	49.2	42.7	51.3	52.7	53.5	52.9	52.2	49.9	42.7						
1000	41.3	46.6	44.6	37.3	49.9	52.0	54.7	54.7	54.8	52.7	42.6						
1250	42.9	46.2	47.0	37.5	57.3	58.9	61.5	60.8	57.6	55.9	44.5						
1600	39.4	43.3	43.3	35.4	51.4	53.8	55.3	53.9	50.6	49.4	38.8						
2000	39.5	45.1	42.8	38.2	45.8	45.8	46.4	45.1	44.1	43.1	39.1						
2500	37.8	42.2	40.4	35.1	45.6	46.2	46.4	45.2	44.4	43.3	33.4						
3150	34.6	42.1	38.6	34.8	42.6	44.1	44.6	43.8	44.9	43.8	31.4						
4000	35.3	41.3	39.8	34.4	44.1	46.2	46.5	46.2	46.3	47.2	34.8						
5000	34.9	40.8	38.5	34.1	43.1	45.6	46.5	46.1	46.8	46.5	33.6						
6300	36.3	41.3	40.4	33.5	49.8	48.6	51.4	53.1	51.8	47.7	34.8						
8000	35.5	40.9	41.0	32.9	47.4	50.9	52.8	53.7	52.5	48.2	34.8						
10000	38.1	43.5	45.7	37.1	55.4	56.9	57.7	57.2	55.2	48.8	35.5						
12500	39.8	46.4	48.5	40.7	58.8	60.6	59.1	57.6	53.8	44.9	29.4						
16000	27.4	32.7	34.7	28.9	49.8	47.3	49.8	48.3	44.7	34.2	15.2						
20000	20.8	25.6	27.4	23.0	37.2	39.6	41.8	41.7	38.5	28.5	1.7						
25000	11.1	17.4	18.8	16.6	27.8	29.8	30.8	29.4	24.3	9.4							
31500		4.1	7.3	5.3	16.8	16.5	18.6	15.9	8.4								
40000						6.4											
50000																	
63000																	
80000																	
OVERALL CALCULATED	55.9	62.8	61.8	52.3	66.5	67.8	69.4	66.6	64.6	62.1	56.8						
PNDB	63.4	69.7	67.8	60.7	73.6	74.9	76.7	76.3	74.9	72.8	62.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)
PROC. DATE = MONTH 12 DAY 3 YR. 11.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	71.8	75.4	73.9	68.7	70.6	80.2	77.9	72.2	80.2	81.6	81.9							111.6
VEHICLE R-55 125	68.0	70.9	72.6	68.4	74.1	78.7	79.4	73.4	81.2	83.1	81.6							112.0
CONFIG 7R 160	68.5	69.4	69.9	68.4	72.1	81.4	79.9	73.2	81.2	81.1	83.6							112.3
LOC SCHENECTADY 200	67.5	67.9	68.9	69.4	72.6	82.9	79.1	75.4	83.7	81.3	83.3							113.2
DATE 12/2 74 250	70.5	71.4	72.1	69.1	73.0	84.6	78.1	75.4	83.7	81.1	82.6							113.7
RUN 25/2 315	72.8	72.9	73.6	69.9	74.9	85.4	81.8	75.6	84.7	81.6	82.8							114.8
TAPE 400	71.1	71.6	71.6	68.2	73.4	87.2	84.9	74.9	85.5	80.8	84.6							116.1
BAR 29.2 HG 500	69.3	69.6	71.9	69.7	72.4	84.9	85.9	75.4	86.8	80.1	84.9							115.7
(98600. N/M2) 630	72.4	70.9	72.4	69.9	74.9	87.9	86.4	78.4	85.2	82.8	83.6							116.9
TAMB 46. DEG F 800	73.1	72.8	74.6	69.9	75.4	85.9	86.1	78.6	87.8	82.6	80.9							117.4
(281. DEG K) 1000	71.1	69.1	70.9	69.7	73.4	85.2	86.3	79.8	86.2	81.1	86.1							116.8
TWET 43. DEG F 1250	70.2	67.9	71.6	68.5	73.4	83.2	84.6	81.4	84.2	86.1	83.1							115.4
(279. DEG K) 1600	71.4	67.4	73.4	61.3	80.8	86.7	84.8	81.9	86.8	86.1	78.4							116.9
HACT 0.44 GM/M3 2000	67.4	67.9	72.1	61.6	70.7	88.8	74.6	73.8	81.5	85.9	78.3							112.3
(.00044 KG/M3) 2500	65.4	66.4	67.6	68.3	71.2	78.7	78.8	72.1	77.7	79.8	72.8							109.1
NFA 6279. RPM 3150	64.6	65.7	67.3	68.4	71.8	78.8	75.8	74.3	77.7	78.1	71.8							108.8
(657. RAD/SEC) 4000	64.3	65.4	66.5	68.3	71.8	78.7	78.4	78.2	80.1	81.6	72.7							110.6
NFK 6359. RPM 5000	64.8	64.9	66.4	68.3	71.2	74.1	79.8	79.9	81.8	80.8	78.2							111.3
(666. RAD/SEC) 6300	66.3	67.7	68.9	68.4	73.3	78.3	80.6	82.9	84.6	82.7	77.8							113.7
NFB 8823. RPM 8000	67.2	68.8	70.1	68.4	75.9	83.2	82.6	86.4	86.7	83.9	79.3							116.6
(924. RAD/SEC) 10000	68.2	69.9	72.2	63.4	80.2	83.3	86.1	86.9	88.8	86.4	78.4							117.8
NO. OF BLADES 15 12500	73.9	76.8	78.5	78.4	80.4	91.4	90.7	91.8	91.2	87.2	84.4							123.4
FAN TIP SPEED 16000	68.4	78.2	73.8	65.1	83.8	88.3	87.7	89.4	88.7	86.5	78.8							120.2
860. FT/SEC 20000	66.9	68.5	71.8	63.5	79.8	83.7	85.6	88.2	90.8	84.2	78.8							119.7
25000	65.4	66.4	67.9	63.8	76.4	80.5	82.2	84.3	86.1	81.6	78.8							116.7
31500	64.5	64.9	66.1	62.2	74.4	77.8	80.4	81.9	83.6	78.7	72.2							113.3
40000	64.6	64.5	66.2	61.7	71.9	78.8	77.9	79.2	80.7	78.6	68.8							114.6
50000	66.6	65.2	67.4	63.7	69.8	78.1	74.3	74.4	78.8	79.1	64.2							113.6
63000	69.5	65.9	68.6	65.5	67.2	78.4	78.6	69.3	78.7	73.7	64.8							113.6
80000	73.5	70.8	72.8	69.2	69.4	78.4	78.4	69.2	78.9	76.3	67.1							119.2
OVERALL MEASURED																		
OVERALL CALCULATED	84.4	84.8	87.2	77.8	92.7	98.6	98.1	97.5	99.8	97.8	96.5							126.1
PNLD	83.8	83.8	86.6	84.8	99.4	107.4	106.2	104.8	106.5	107.8	105.8							

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ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 3 HR. 11.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	48.1	52.7	51.0	37.8	49.0	50.4	56.7	49.1	55.8	58.8	51.0						
VEHICLE R-58 125	44.3	48.1	50.5	36.8	52.5	50.8	57.1	50.3	56.7	56.4	51.4						
CONFIG 7R 160	44.7	48.5	47.7	36.6	53.4	59.5	57.5	49.9	56.6	54.3	53.1						
LOC SCHENECTADY 200	43.6	44.9	46.6	37.5	50.8	60.9	56.7	52.1	59.8	54.4	52.7						
DATE 12/2 74 250	46.5	48.3	49.7	34.1	51.7	62.6	55.6	52.0	58.8	54.8	51.7						
RUN 25/2 315	47.9	49.7	51.1	37.8	52.9	63.3	59.2	52.1	59.7	54.3	51.8						
TAPE 400	46.8	48.4	49.1	38.8	51.3	64.9	62.1	51.3	60.4	53.4	53.3						
BAR 29.2 HG 500	44.9	46.3	49.2	39.4	50.2	62.6	63.8	51.7	60.7	52.5	53.3						
(98800. N/M2) 630	47.8	47.4	49.8	39.6	52.7	63.5	63.4	54.5	59.9	56.1	51.8						
TAMB 46. DEG F 800	48.4	49.8	51.7	43.5	53.8	63.4	63.8	54.7	61.9	56.6	57.7						
(281. DEG K) 1000	46.3	45.4	55.8	38.1	50.9	62.5	63.2	58.5	60.5	52.9	53.8						
TMET 43. DEG F 1250	45.2	44.8	48.5	35.8	50.8	60.4	61.3	57.1	58.3	57.7	50.3						
(279. DEG K) 1600	46.2	43.3	50.8	38.4	57.2	63.8	61.3	57.4	59.9	57.4	49.1						
WACT 6.44 GM/M3 2000	42.8	43.6	48.6	38.5	47.8	58.8	58.9	49.1	56.1	55.8	48.8						
(.0044 KG/M3) 2500	39.7	41.8	43.8	35.1	48.1	55.4	52.9	47.2	51.1	52.3	38.4						
NFA 6279. RPM 3150	38.6	40.9	43.3	34.8	47.6	54.4	50.8	49.8	50.7	48.3	38.8						
(657. RAD/SEC) 4000	37.8	40.1	42.8	34.4	47.1	54.7	53.4	50.5	52.5	51.8	38.7						
NFX 6350. RPM 5000	37.9	39.3	41.7	34.1	47.1	49.9	53.8	53.9	53.9	49.8	41.8						
(664. RAD/SEC) 6300	38.6	41.3	43.4	33.5	48.5	53.4	54.9	54.1	56.7	50.4	38.5						
NFB 8823. RPM 8000	38.8	40.9	43.5	34.4	50.1	59.2	55.8	57.2	56.2	48.7	38.8						
(924. RAD/SEC) 10000	37.1	40.5	44.8	35.9	52.9	55.7	56.7	56.9	55.8	48.5	33.2						
NO. OF BLADES 18 12500	40.8	44.2	49.8	40.7	54.8	61.6	59.9	59.3	58.6	48.4	33.4						
FAN TIP SPEED 16000	29.9	34.2	38.5	31.7	49.9	51.8	53.8	52.8	48.8	38.2	18.4						
849. FT/SEC 20000	22.3	27.1	31.6	28.2	42.8	43.3	48.4	45.7	42.7	28.5	9.2						
25000	12.1	17.1	21.3	17.9	31.7	35.2	36.1	33.6	28.3	13.1							
31500		4.3	9.8	7.1	19.8	22.5	22.6	19.4	12.9								
40000					2.6	0.4	4.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.1	60.8	62.7	51.4	68.8	74.4	72.8	67.8	71.4	67.3	64.1						
PNLB	67.8	68.8	71.7	60.8	76.1	84.8	82.2	78.6	81.3	78.3	71.4						

PAGE 1 FULL SCALE DATA RECORDATION PROGRAM PROG. DATE = MONTH 12 DAY 3 NO. 11.2

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. M)	100	67.3	71.9	71.9	58.7	78.9	78.9	71.9	72.4	75.7	80.3	83.6							109.3
VEHICLE A-35	125	73.5	78.9	78.1	61.9	75.4	73.7	73.6	77.2	78.2	81.1	83.6							111.8
CONFIG 7R	160	71.5	72.9	72.4	60.4	73.4	73.2	75.4	76.7	78.7	81.3	84.1							111.8
LOC SCHENECTADY	200	70.3	70.9	71.1	60.9	74.4	76.4	77.6	78.9	80.5	82.8	84.6							112.2
DATE 12/2 74	250	74.8	74.6	75.6	63.4	78.9	77.6	78.8	79.1	80.5	82.1	83.1							112.8
RUN 28/3	315	75.8	76.4	76.4	62.9	77.4	77.7	78.6	78.9	80.8	81.8	82.8							112.8
TAPE	400	74.3	74.6	74.6	62.2	75.9	76.2	77.9	78.1	80.8	81.3	81.8							111.7
BAR 29.2 HG	500	71.6	72.6	72.4	62.9	75.4	76.2	78.4	79.2	80.9	81.1	80.6							111.5
(98500. N/M2)	630	73.1	73.6	74.4	63.4	77.2	78.7	81.1	81.7	82.2	82.3	81.1							112.4
TAMB 40. DEG F	800	74.4	75.1	75.4	66.4	77.9	79.4	80.8	81.4	81.5	81.6	80.4							113.3
(281. DEG K)	1000	71.6	71.9	72.9	61.9	76.1	77.9	79.8	81.9	82.2	82.1	79.3							112.6
TRET 43. DEG F	1250	76.7	77.2	77.4	66.5	78.2	78.8	80.3	81.6	83.8	83.4	79.1							113.2
(279. DEG K)	1600	74.7	72.4	74.1	62.8	78.7	80.5	83.8	84.1	83.7	83.4	79.6							113.6
MACT 0.44 GM/M3	2000	74.2	71.7	73.4	63.8	78.3	79.3	84.6	83.4	83.8	84.4	78.3							114.8
(.00044 KG/M3)	2500	68.9	70.2	70.9	59.8	75.5	78.2	78.3	78.6	78.2	78.8	78.1							109.2
NFA 7000. RPM	3150	67.8	68.4	69.6	58.6	74.8	76.5	77.3	76.8	81.2	76.9	74.3							110.8
(730. RAD/SEC)	4000	67.8	68.9	69.5	59.1	75.8	76.7	78.2	79.5	83.8	79.3	75.2							111.8
NFX 7140. RPM	5000	67.3	68.4	69.2	58.5	74.9	78.9	81.1	81.6	83.8	79.8	75.7							112.6
(748. RAD/SEC)	6300	68.8	69.9	71.6	60.2	76.3	79.6	83.3	85.4	80.1	83.5	77.7							110.2
NFB 8823. RPM	8000	69.7	71.6	72.4	62.4	78.4	82.5	85.9	88.6	90.2	85.8	79.8							110.8
(924. RAD/SEC)	10000	69.7	71.9	73.2	63.7	80.5	83.3	87.3	88.6	90.5	85.1	79.4							119.4
NO. OF BLADES 18	12500	72.2	73.8	76.7	67.2	85.4	87.4	90.7	91.4	92.2	86.3	81.6							122.3
FAN TIP SPEED	16000	71.2	73.2	76.1	67.6	86.8	87.8	90.7	90.9	91.4	85.8	80.8							122.4
818. FT/SEC	20000	69.4	71.8	75.8	66.2	83.8	85.7	90.1	91.2	92.8	86.2	80.5							122.6
	25000	68.2	69.1	71.7	64.5	80.6	83.2	86.7	88.3	90.8	83.2	78.5							120.4
	31500	66.3	67.9	70.1	63.5	79.1	81.6	84.9	86.7	86.1	82.8	78.3							119.7
	40000	65.6	65.8	68.2	62.9	78.1	79.8	82.4	83.2	84.8	79.1	69.6							118.8
	50000	67.1	65.9	68.2	64.8	72.8	75.1	78.8	78.7	78.8	75.3	68.7							118.7
	63000	70.8	66.1	68.9	65.8	69.2	70.6	73.8	72.8	73.5	70.7	68.2							112.6
	80000	72.5	69.8	72.8	69.2	68.4	68.9	73.4	71.7	71.6	71.8	67.6							110.3
OVERALL MEASURED																			
OVERALL CALCULATED		86.3	87.2	88.2	78.3	93.3	95.4	98.7	99.6	100.8	97.3	94.9							126.6
	PWL	98.4	96.3	97.2	86.3	101.0	102.2	106.4	107.8	108.6	107.8	103.6							

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	43.6	49.2	49.8	37.0	49.3	49.2	49.7	49.3	51.3	53.8	53.5						
125	49.8	50.1	50.8	40.1	53.7	51.8	53.3	54.8	53.7	54.4	53.4						
160	47.7	50.8	50.2	38.6	51.6	51.3	53.8	53.4	54.1	54.5	53.6						
200	46.3	47.9	48.8	39.8	52.6	54.4	55.2	55.6	55.)	55.9	53.9						
250	50.8	51.5	53.2	41.4	55.8	55.6	56.3	55.7	55.6	55.8	52.2						
315	51.6	53.2	53.9	42.8	55.4	55.5	56.8	55.4	55.8	54.6	51.8						
400	50.8	51.4	52.1	40.8	53.8	53.9	55.1	54.5	54.9	53.9	50.5						
500	47.2	49.3	49.7	40.7	53.2	53.9	55.8	55.4	54.7	53.5	49.8						
630	48.6	50.2	51.6	41.1	54.9	56.3	56.2	57.8	56.9	54.6	49.3						
800	49.7	51.5	52.5	44.8	55.5	56.9	57.8	57.4	55.8	53.6	48.2						
1000	46.8	48.1	49.8	39.3	53.7	55.3	56.7	57.7	56.5	53.9	48.9						
1250	45.7	47.2	49.2	37.8	53.6	55.2	57.8	57.3	57.1	54.9	48.3						
1600	49.4	48.3	50.8	39.9	53.9	57.5	62.3	59.6	57.6	56.7	50.3						
2000	48.7	47.4	49.8	40.7	52.5	56.3	60.9	58.8	56.6	55.3	44.6						
2500	43.2	45.7	47.1	36.8	52.4	52.9	52.7	50.7	51.8	47.8	40.8						
3150	41.6	43.8	45.8	35.1	50.6	52.9	53.3	51.5	54.2	47.8	39.6						
4000	41.3	43.6	45.8	35.1	51.1	52.7	53.5	53.7	56.3	48.7	39.2						
5000	40.4	42.8	44.8	34.3	50.9	52.8	56.2	55.8	58.9	48.8	39.8						
6300	41.1	43.5	46.2	35.2	51.5	54.8	57.7	58.8	59.2	51.2	39.3						
8000	40.5	43.9	45.8	36.4	52.6	56.4	59.6	60.5	59.7	51.7	38.5						
10000	38.6	42.8	45.8	36.1	53.1	55.7	58.9	58.7	58.8	48.2	34.2						
12500	38.3	41.9	46.2	37.4	55.8	57.6	59.8	58.8	58.6	48.7	38.7						
16000	32.8	37.2	41.7	34.2	52.9	54.3	56.8	54.8	58.7	37.7	28.2						
20000	24.8	30.4	35.8	28.8	45.7	47.3	50.3	48.7	44.7	30.8	7.7						
25000	14.9	19.9	28.1	19.4	36.8	36.8	39.8	37.8	33.8	18.4							
31500	8.4	7.3	13.8	8.3	24.5	28.2	27.1	24.2	17.4								
40000					8.8	8.4	8.6	3.1									
50000																	
63000																	
80000																	
OVERALL SALE LATED	66.5	62.8	63.8	52.7	67.8	68.6	70.9	70.3	68.7	68.8	62.6						
PNDB	78.4	71.8	73.2	62.6	77.5	78.3	82.2	81.4	81.6	77.4	68.1						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-35
COMPTE 78
LOC SCHENECTADY
DATE 12/2 74
RUN 25/3
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 48. DEG F (281. DEG K)
THET 43. DEG F (279. DEG K)
HACT 6.44 GM/M3 (.00644 KG/M3)
NFA 7050. RPM (739. RAD/SEC)
NFB 7114. RPM (748. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 616. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 11.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 7R
LOC SCHENECTADY
DATE 12/2 74
RUN 25/4
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 46. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.44 GM/M3 (.00644 KG/M3)
NFA 7846. RPM (821. RAD/SEC)
NFK 7946. RPM (832. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 685. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	68.0	71.4	72.1	59.9	73.4	73.4	74.4	75.4	79.0	83.8	87.6							112.6
125	75.3	77.6	76.6	61.9	78.4	78.4	80.1	81.2	82.5	84.3	87.1							114.6
160	74.5	75.9	75.4	62.7	76.6	75.9	78.6	80.4	82.5	84.8	87.1							114.3
200	73.5	73.4	74.4	62.4	77.9	79.1	80.1	82.1	83.5	86.6	86.3							115.6
250	78.5	78.9	80.9	67.1	82.6	83.4	84.3	86.1	86.5	88.1	88.3							118.4
315	78.5	79.6	79.4	65.7	80.4	81.2	81.8	82.8	83.5	85.3	87.1							116.1
400	77.3	78.1	77.6	64.9	79.1	79.4	81.4	82.4	83.2	85.1	86.3							115.4
500	74.8	75.6	76.1	64.2	78.6	79.9	82.6	82.7	84.0	84.6	85.1							115.2
630	75.6	76.1	76.9	65.2	80.4	81.2	83.6	84.4	84.5	85.3	84.4							116.1
800	77.1	76.9	77.6	67.7	80.1	81.7	83.6	84.1	84.2	85.1	84.1							116.1
1000	74.1	74.9	75.6	64.2	79.1	80.7	82.3	83.4	84.7	84.3	82.6							115.2
1250	73.9	74.4	74.9	62.7	78.9	80.2	82.6	83.4	85.0	83.9	82.4							115.1
1600	73.4	74.2	74.9	62.5	78.5	80.5	82.6	81.6	84.2	83.6	80.4							114.5
2000	74.9	77.7	81.1	69.3	85.0	81.2	88.3	91.4	90.5	90.6	84.6							121.1
2500	72.4	73.2	74.6	62.6	78.7	79.5	79.5	80.1	82.5	80.4	79.1							112.8
3150	70.9	71.9	72.6	60.6	77.5	79.2	79.2	78.8	82.5	79.9	77.8							112.2
4000	71.3	71.6	73.5	61.8	78.7	79.7	82.4	83.0	88.1	83.1	79.7							115.8
5000	70.0	70.9	72.4	61.3	77.9	79.4	82.6	84.1	85.6	82.5	78.4							114.9
6300	71.8	72.4	74.4	62.4	79.8	83.1	86.8	88.4	90.3	84.7	79.7							118.9
8000	72.2	74.1	75.6	64.4	81.7	84.7	88.6	91.4	93.2	87.6	81.5							121.6
10000	72.0	74.1	75.7	65.2	82.5	85.1	90.1	91.9	92.7	86.1	81.4							121.9
12500	73.9	75.5	78.5	69.4	86.6	88.7	93.4	94.4	94.4	88.5	83.1							124.7
16000	73.4	75.5	78.8	69.6	87.5	89.6	92.5	93.9	93.2	87.3	82.8							124.5
20000	72.9	75.0	79.5	70.2	87.6	90.4	93.4	95.2	95.3	88.7	83.8							126.2
25000	70.9	73.1	76.9	68.7	85.4	88.0	92.0	93.0	93.8	88.0	82.2							125.1
31500	69.2	71.4	75.1	66.5	83.6	86.8	89.9	91.9	91.9	85.5	79.3							124.3
40000	67.9	69.0	72.2	65.4	80.4	82.8	86.6	88.2	88.4	82.9	73.3							122.2
50000	67.9	67.4	70.4	64.5	76.3	78.8	82.8	83.2	83.3	79.1	69.2							119.5
63000	69.7	66.9	70.1	65.8	72.2	73.9	77.3	77.0	77.5	74.7	67.0							117.1
80000	73.8	71.0	73.0	69.2	73.7	71.4	75.7	77.2	76.6	76.8	70.8							121.3
OVERALL MEASURED																		
OVERALL CALCULATED	88.7	89.7	91.2	80.7	98.5	98.3	101.7	103.3	103.8	100.3	98.5							134.9
PNDB	98.4	99.9	101.8	89.9	105.7	106.2	109.4	111.3	112.3	111.0	107.7							

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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.4	48.7	50.1	38.2	51.8	51.7	52.2	52.3	54.5	57.3	57.5						
125	51.5	54.8	54.5	40.1	56.7	56.6	57.8	58.0	57.9	57.7	56.9						
160	50.7	53.0	53.2	40.8	54.9	54.8	56.2	57.2	57.6	56.0	56.6						
200	49.6	50.4	52.1	40.5	58.1	57.2	57.7	58.8	58.7	59.6	57.7						
250	54.5	55.6	58.5	45.1	60.7	61.3	61.8	62.7	61.6	61.0	57.5						
315	54.4	56.5	56.9	43.6	58.4	59.0	59.2	59.1	58.5	58.1	56.0						
400	53.0	54.9	55.1	42.7	57.1	57.2	58.6	58.8	58.1	57.7	55.0						
500	50.4	52.3	53.5	41.9	56.5	57.0	59.8	58.9	58.7	57.0	53.5						
630	51.1	52.7	54.1	42.8	58.2	58.0	60.7	60.5	59.1	57.6	52.5						
800	52.4	53.3	54.7	45.2	57.8	59.2	60.5	60.2	58.7	57.1	52.0						
1000	49.3	51.1	52.6	41.6	56.7	58.0	59.2	59.2	59.0	56.2	50.1						
1250	48.9	50.5	51.7	40.0	56.3	57.4	59.3	59.1	59.1	55.4	49.5						
1600	48.2	50.1	51.5	39.6	55.7	57.5	59.1	57.1	58.1	54.9	47.1						
2000	49.5	53.4	57.6	46.2	62.0	58.1	64.6	66.6	64.1	61.8	50.9						
2500	46.7	48.7	50.9	39.3	55.8	56.2	55.7	55.2	55.8	51.0	44.9						
3150	44.9	47.1	48.6	37.1	54.1	55.6	55.1	53.5	55.4	50.8	42.9						
4000	44.8	46.3	49.8	37.9	54.9	55.7	57.8	57.2	60.5	52.5	43.7						
5000	43.2	45.3	47.7	37.1	53.9	55.1	57.7	58.1	57.7	51.5	41.8						
6300	44.1	46.0	48.9	37.5	55.0	56.1	61.2	61.6	61.4	52.4	41.3						
8000	43.8	46.4	49.0	38.4	55.9	58.7	61.8	63.2	62.7	53.4	40.3						
10000	40.9	44.8	47.5	37.6	55.1	57.4	61.7	61.9	60.2	49.2	36.2						
12500	40.8	43.7	46.0	39.7	57.1	58.8	62.6	61.8	58.8	47.7	32.2						
16000	34.9	39.5	44.5	36.2	54.4	56.0	57.8	57.0	52.5	40.0	22.4						
20000	28.3	33.6	40.1	32.0	49.7	52.1	53.6	52.7	48.0	33.0	11.0						
25000	17.6	23.9	30.3	23.6	40.7	42.7	44.9	42.4	37.8	20.1							
31500	3.2	10.8	18.8	11.3	29.0	31.5	32.1	29.4	21.1								
40000					11.1	12.4	12.9	8.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.1	66.2	66.8	55.0	70.6	71.3	73.5	73.9	73.0	70.1	66.8						
PNDB	72.9	75.2	76.0	66.2	82.4	82.1	86.2	86.1	86.1	81.9	73.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 7R
LOC SCHENECTADY
DATE 12/2 74
RUN 25/4
TAPE
BAR 29.2 MG (98500. N/M2)
TAMB 46. DEG F (281. DEG K)
TWET 43. DEG F (278. DEG K)
HACT 6.44 GM/M3 (.00644 KG/M3)
NFA 7845. RPM (821. RAD/SEC)
NFK 7946. RPM (832. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 685. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 11.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.8	73.1	74.1	68.1	74.4	74.4	75.1	76.1	79.4	83.2	87.6							112.8
VEHICLE R-55	125	76.8	78.1	77.1	68.1	76.9	78.6	80.4	81.4	82.9	84.5	87.6							115.1
CONFIG 7R	160	76.5	76.6	76.6	68.1	76.4	76.1	79.4	80.9	83.1	84.7	87.6							114.7
LOC SCHENECTADY	200	74.7	74.8	75.3	66.6	77.6	79.4	80.8	82.4	83.9	85.4	88.3							115.6
DATE 12/2 74	250	81.0	79.8	81.3	70.8	82.3	83.6	85.3	86.6	86.9	87.7	88.3							118.7
RUN 25/5	315	80.5	79.6	79.8	69.1	80.9	81.1	81.8	82.4	84.9	85.2	86.6							116.4
TAPE	400	81.3	78.8	77.8	68.6	79.9	79.6	81.6	82.4	83.6	84.9	86.1							115.7
BAR 29.2 HG	500	80.1	77.1	76.3	70.6	78.6	80.1	81.8	83.1	83.9	84.2	85.1							115.4
(98500. N/M2)	630	81.3	77.3	77.6	71.1	80.1	81.7	83.3	84.4	84.9	85.0	84.6							116.4
TAMB 40. DEG F	800	82.8	79.6	81.3	75.1	82.1	82.7	84.1	85.1	85.1	84.2	84.6							117.3
(281. DEG K)	1000	76.1	75.8	76.6	69.1	78.9	80.2	82.6	83.8	84.6	84.0	82.6							115.3
TWET 43. DEG F	1250	76.4	74.8	75.6	68.2	78.7	80.9	82.6	83.1	84.4	83.2	82.3							115.0
(279. DEG K)	1600	75.1	74.6	76.1	68.2	78.5	80.2	82.3	82.3	84.2	83.3	80.8							114.6
HACT 6.44 GM/M3	2000	76.9	78.6	81.8	73.0	84.5	81.7	87.6	91.3	90.7	89.5	85.1							120.8
(.00644 KG/M3)	2500	73.4	73.9	74.8	68.3	78.5	79.2	79.8	79.8	82.6	80.0	79.0							112.8
NFA 7846. RPM	3150	71.9	72.6	73.5	66.3	77.2	79.2	78.7	79.3	82.4	79.2	77.5							112.2
(821. RAD/SEC)	4000	71.8	72.8	73.7	68.3	78.7	80.1	81.9	83.4	88.3	82.7	79.4							115.9
NFK 7946. RPM	5000	71.5	72.0	73.1	68.2	77.9	79.6	82.8	84.1	86.0	81.6	78.1							115.0
(832. RAD/SEC)	6300	72.8	73.3	74.6	68.4	79.8	82.8	86.6	88.6	90.5	84.3	79.7							119.0
NFB 8823. RPM	8000	73.4	74.7	76.4	68.6	81.4	84.4	88.1	91.1	93.3	86.9	81.3							121.3
(924. RAD/SEC)	10000	74.4	74.3	76.4	68.9	82.2	85.0	89.1	91.8	92.4	85.7	81.2							121.6
NO. OF BLADES 15	12500	76.4	77.2	79.4	72.8	86.4	88.4	92.9	94.1	94.3	87.8	83.4							124.4
FAN TIP SPEED	16000	74.4	76.2	79.3	70.8	87.0	89.0	92.0	93.9	93.1	86.4	82.3							124.2
885. FT/SEC	20000	75.1	76.7	80.0	71.9	87.8	90.1	93.1	95.2	94.7	88.1	83.7							125.9
	25000	75.2	75.8	78.4	72.4	85.4	87.4	91.7	93.2	93.8	87.9	82.5							125.0
	31500	74.2	74.8	76.8	71.4	83.4	86.3	89.4	91.4	91.8	85.1	79.5							124.0
	40000	74.4	73.5	75.6	71.4	80.6	83.3	86.4	87.9	87.8	82.0	74.5							122.9
	50000	77.3	74.1	77.6	73.4	78.2	80.3	83.8	83.1	83.4	79.2	73.1							120.7
	63000	79.2	75.6	78.8	75.7	77.7	77.8	80.3	79.8	79.1	75.8	73.7							121.2
	80000	83.5	79.2	82.0	79.1	79.4	79.9	80.4	79.7	79.6	78.4	77.8							127.2
OVERALL MEASURED																			
OVERALL CALCULATED		92.5	91.2	92.6	86.4	96.6	98.3	101.4	103.2	103.7	99.7	98.6							135.8
PNDB		100.6	100.8	102.6	94.8	105.5	106.2	109.8	111.3	112.5	110.2	107.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 3 HR. 11.4

MODEL SOUND PRESSURE LEVELS (99. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.1	50.3	52.0	46.4	52.8	52.6	52.9	53.1	55.0	56.7	57.5						
VEHICLE R-55	125	53.0	55.3	54.9	46.3	57.2	56.8	58.1	58.2	58.4	57.8	57.3						
CONFIG 7R	160	52.6	53.7	54.4	46.3	54.8	54.2	57.0	57.6	58.5	57.9	57.1						
LOC SCHENECTADY	200	50.8	51.8	53.0	46.7	55.8	57.4	58.4	59.0	59.1	58.5	57.6						
DATE 12/2 74	250	56.9	56.7	58.9	48.8	60.5	61.5	62.8	63.2	62.0	60.6	57.4						
RUN 25/5	315	56.3	56.4	57.3	46.0	58.9	59.0	59.2	58.8	59.9	57.9	55.7						
TAPE	400	57.0	55.5	55.3	46.4	57.8	57.4	58.9	58.7	58.9	57.5	54.7						
BAR 29.2 HG	500	55.7	53.7	53.7	48.4	56.9	57.8	59.0	59.4	58.7	56.6	53.5						
(98500. N/M2)	630	56.8	53.8	54.8	48.8	57.9	59.2	60.4	60.5	59.5	57.2	52.7						
TAMB 46. DEG F	800	58.2	56.0	58.4	52.7	59.8	60.1	61.0	61.1	59.6	56.2	52.4						
(281. DEG K)	1000	51.3	52.1	53.6	46.5	56.4	57.5	59.4	59.7	58.9	55.8	50.1						
TDET 43. DEG F	1250	51.4	50.9	52.4	45.5	56.1	58.1	59.2	58.8	58.5	54.8	49.5						
(279. DEG K)	1600	49.9	50.5	52.7	45.3	55.7	57.2	58.8	57.8	58.0	54.5	47.8						
HACT 6.44 GM/M3	2000	51.4	54.1	58.3	49.9	61.5	58.6	63.9	66.6	64.3	60.4	51.3						
(.00644 KG/M3)	2500	47.7	49.4	51.1	45.0	55.4	55.9	55.9	54.9	56.0	50.6	46.8						
NFA 7046. RPM	3150	45.8	47.8	49.5	44.8	53.8	55.6	54.6	54.0	55.4	49.4	42.8						
(821. RAD/SEC)	4000	45.2	47.5	49.3	44.3	54.9	56.1	57.3	57.7	60.7	52.1	43.4						
NFK 7046. RPM	5000	44.6	46.3	48.4	44.0	53.9	55.3	57.7	58.1	58.1	50.8	41.5						
(632. RAD/SEC)	6300	45.0	47.0	49.1	43.4	55.0	57.8	60.9	61.8	61.6	52.1	41.2						
NFD 8823. RPM	8000	44.3	47.1	49.8	42.6	59.6	58.4	61.3	62.9	62.9	51.8	40.8						
(924. RAD/SEC)	10000	43.4	45.8	48.2	41.3	54.9	57.4	60.7	61.9	59.9	48.9	36.0						
NO. OF BLADES 15	12500	42.5	45.4	48.9	42.9	56.8	58.5	62.1	61.5	58.7	47.0	32.4						
FAN TIP SPEED	16000	35.9	40.2	44.9	37.4	53.9	55.5	57.3	57.0	52.4	39.1	21.9						
685. FT/SEC	20000	30.5	35.3	40.6	33.7	50.0	51.8	53.3	52.6	47.4	32.4	11.0						
	25000	21.8	28.6	31.8	27.3	40.7	42.2	44.6	42.6	36.8	28.0							
	31500	8.1	14.8	19.7	18.3	28.8	30.9	31.6	28.9	21.0								
	40000			2.8	1.2	11.3	12.9	12.6	7.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		66.3	66.1	67.7	60.3	78.6	71.4	73.3	74.0	73.2	69.6	66.8						
	PNDB	74.8	76.1	78.7	71.2	82.3	82.2	84.9	86.2	85.3	80.7	73.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 3 HR. 11.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.0	76.6	80.4	68.4	83.4	81.2	78.4	73.2	70.2	74.6	76.1							112.7
125	66.0	68.9	71.1	58.2	71.6	67.2	68.1	70.2	70.7	72.6	75.1							104.3
160	65.8	66.6	66.6	58.2	67.1	66.4	68.1	69.4	71.5	73.3	74.9							103.4
200	65.5	65.4	66.9	58.4	68.4	69.1	71.1	71.9	73.5	76.3	76.6							105.4
250	67.3	68.9	69.4	60.9	70.4	71.1	71.8	72.4	73.7	75.1	74.8							106.7
315	68.6	70.4	70.1	58.2	70.6	70.9	71.6	71.9	73.0	73.8	74.3							105.4
400	68.1	69.1	68.4	59.2	69.6	70.2	71.1	71.9	73.2	74.1	73.6							105.0
500	65.8	67.6	66.9	60.4	68.9	69.9	71.9	72.9	73.5	74.6	73.6							105.1
630	67.6	68.4	69.4	61.4	71.9	70.4	75.4	75.9	76.2	76.3	74.4							107.7
800	71.1	71.6	72.1	65.2	73.6	75.2	76.6	77.1	77.5	77.8	75.1							109.2
1000	66.1	66.6	67.9	59.4	72.1	74.9	77.6	79.1	79.7	80.8	78.1							110.2
1250	68.4	67.2	70.1	60.0	79.7	81.2	84.8	84.9	83.5	84.1	76.9							115.4
1600	65.2	65.2	66.6	58.3	74.2	75.7	78.8	78.4	76.2	78.1	71.9							109.3
2000	65.4	66.2	66.6	61.1	68.2	69.0	70.1	70.1	70.7	72.1	69.1							103.1
2500	63.1	63.9	64.4	58.3	68.2	69.7	69.5	69.6	71.7	71.8	67.8							102.8
3150	61.6	61.7	62.6	58.4	66.0	68.0	68.7	69.1	72.2	72.4	68.5							102.2
4000	62.3	63.4	63.3	58.3	68.5	69.9	70.9	73.7	76.9	77.6	70.2							104.1
5000	62.5	62.6	63.4	58.3	67.4	69.9	74.1	76.4	78.6	77.8	70.4							107.0
6300	64.1	64.9	65.6	58.4	70.3	73.6	77.1	79.9	81.3	80.2	73.5							111.5
8000	65.2	66.6	67.4	58.9	73.4	76.5	79.4	81.4	83.2	82.4	75.5							112.6
10000	69.5	70.9	72.9	64.2	82.7	84.8	86.1	86.6	86.2	85.1	80.9							118.4
12500	72.7	74.8	77.0	68.2	89.6	90.7	89.7	88.2	89.9	85.7	80.4							122.1
16000	65.7	67.0	69.1	62.1	77.3	81.1	83.5	85.4	85.9	81.8	75.6							116.4
20000	64.6	64.5	66.3	60.7	75.1	77.4	81.1	83.5	85.6	81.7	74.5							115.3
25000	64.9	64.9	64.9	61.0	71.9	74.5	77.5	80.5	82.3	78.5	71.8							112.7
31500	64.2	64.2	64.1	60.5	70.6	73.3	75.6	77.9	79.6	75.7	68.5							111.3
40000	64.9	64.5	64.4	61.4	67.6	70.6	73.4	74.7	76.9	73.9	64.1							110.1
50000	67.6	65.2	67.2	63.7	66.8	68.3	70.8	70.4	72.0	70.3	63.2							109.1
63000	69.7	66.1	69.4	65.5	67.2	67.1	69.1	66.8	67.7	70.9	64.2							111.1
80000	73.5	69.5	72.0	69.2	69.4	69.9	70.4	69.2	68.1	83.3	67.1							121.0
OVERALL MEASURED																		
OVERALL CALCULATED	82.8	83.5	85.5	77.4	92.5	93.6	94.3	94.7	95.8	94.1	88.2							120.1
PNDB	90.1	91.0	92.1	84.8	98.1	99.8	101.4	102.2	103.4	102.9	98.4							

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 12 DAY 3 HR. 11.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 7R
LOC SCHENECTADY
DATE 12/2 74
RUN 25/6
TAPE
BAR 29.2 HG (98500. N/M2)
TAMB 46. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.44 GM/M3 (.00644 KG/M3)
NFA 5491. RPM (575. RAD/SEC)
NFK 5581. RPM (582. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 479. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80																	
100	50.4	53.9	58.3	46.7	61.8	59.4	56.2	50.1	45.8	48.0	46.0						
125	42.3	46.1	49.0	36.4	50.0	45.3	45.8	47.0	46.2	45.9	44.9						
160	41.9	43.7	44.4	36.3	45.4	44.5	45.7	46.2	46.8	46.5	44.4						
200	41.6	42.4	44.6	36.5	46.6	47.2	48.7	48.6	48.7	49.4	45.9						
250	43.2	45.8	47.0	38.9	48.5	49.1	49.3	49.0	48.8	48.0	44.0						
315	44.6	47.2	47.6	39.1	48.7	48.8	49.0	48.4	48.0	46.6	43.3						
400	43.8	45.9	45.8	37.0	47.6	47.9	48.4	48.3	48.1	46.7	42.3						
500	41.4	44.3	44.2	38.2	46.7	47.6	49.0	49.2	48.2	47.0	42.0						
630	43.1	44.9	46.6	39.1	49.7	51.0	52.4	52.0	50.9	48.6	42.5						
800	46.4	48.0	49.2	42.7	51.3	52.7	53.5	53.2	51.9	49.9	43.0						
1000	41.3	42.9	44.8	36.8	49.7	52.3	54.4	55.0	54.0	52.7	42.6						
1250	43.4	43.2	47.0	37.3	57.1	58.4	61.5	60.6	57.6	55.7	44.0						
1600	39.9	41.1	43.3	35.4	51.4	52.8	55.3	53.9	50.1	49.4	38.6						
2000	40.0	41.9	43.1	34.0	45.3	45.8	46.4	45.4	44.4	43.1	35.4						
2500	37.5	39.4	40.6	35.1	45.1	46.4	45.7	44.7	45.1	42.5	33.6						
3150	35.6	36.9	38.6	34.8	42.6	44.4	44.6	43.8	45.2	42.5	31.6						
4000	35.8	38.1	38.8	34.4	44.8	45.9	46.3	46.0	49.3	47.0	34.2						
5000	35.2	37.0	38.7	34.1	43.4	45.6	49.2	50.4	48.7	46.8	33.8						
6300	36.3	38.5	40.2	33.5	45.5	48.8	51.4	53.1	52.4	47.9	35.0						
8000	36.0	38.9	40.8	32.9	47.6	50.4	52.5	53.2	52.7	48.2	34.3						
10000	38.4	41.5	44.7	36.8	55.4	57.2	57.7	56.7	55.7	48.2	35.7						
12500	38.8	42.9	46.5	38.4	60.1	60.8	58.9	55.6	54.3	44.9	29.4						
16000	27.1	31.0	34.7	28.7	46.1	47.5	48.8	48.5	45.2	34.5	15.2						
20000	20.0	23.1	26.9	22.5	37.2	39.1	41.3	40.9	38.5	26.0	1.7						
25000	11.6	15.6	18.3	15.8	27.2	29.2	30.4	29.9	25.8	10.6							
31500		3.6	7.0	5.3	16.0	18.0	17.8	15.4	3.9								
40000						0.2											
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.1	58.6	61.4	52.0	66.6	66.8	67.3	66.3	64.7	62.1	58.2						
PNDB	63.8	66.9	67.6	60.8	73.4	74.7	76.6	76.1	78.1	72.4	62.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 HR. 11.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
50																			
63																			
80																			
100	74.7	75.9	79.7	82.5	82.4	81.6	78.0	71.7	71.5	76.0	77.7								113.3
125	68.2	67.7	71.4	69.5	69.9	67.6	67.8	71.0	73.2	72.5	75.4								104.9
160	65.2	65.7	65.7	66.5	66.6	66.6	68.3	69.7	71.7	73.5	75.9								103.7
200	64.2	64.4	65.4	66.5	68.6	69.9	70.0	71.5	73.2	75.3	76.9								105.1
250	68.4	68.7	69.6	70.4	71.4	71.6	72.0	73.0	73.2	74.7	76.1								106.2
315	70.0	70.2	70.4	71.0	71.4	71.9	71.5	72.2	73.7	74.0	74.9								106.1
400	67.8	68.4	68.4	69.2	69.6	69.9	70.5	71.0	72.7	73.3	74.4								104.8
500	66.3	66.7	66.6	67.2	68.9	70.4	71.5	73.2	74.2	74.5	73.9								105.3
630	69.1	69.2	70.2	71.5	72.9	74.7	76.0	76.5	77.0	76.8	75.4								108.5
800	70.6	69.9	69.6	71.0	74.4	74.9	75.3	76.0	77.4	77.3	74.7								108.8
1000	66.3	66.7	67.6	69.7	71.9	73.7	75.2	77.0	78.9	78.3	73.4								108.6
1250	69.3	67.7	71.9	74.8	75.7	78.0	80.0	82.0	82.2	83.3	76.2								112.9
1600	65.6	65.0	68.1	70.3	71.5	73.7	74.7	75.7	75.7	76.6	71.4								107.4
2000	63.6	65.2	66.1	67.4	69.2	70.2	70.5	71.7	74.2	74.1	70.7								104.6
2500	64.1	65.5	66.6	69.2	70.8	72.5	73.0	74.4	79.5	75.6	71.6								107.4
3150	63.1	63.5	65.1	67.4	69.3	71.7	72.9	74.4	78.2	76.3	70.6								106.8
4000	65.5	66.7	68.3	70.7	73.2	75.2	77.4	79.1	82.1	82.0	74.3								111.2
5000	63.7	64.4	66.2	68.6	71.7	74.9	77.3	80.0	80.6	79.0	73.0								110.2
6300	64.3	65.3	66.9	69.3	72.1	75.6	78.1	79.8	82.8	80.7	73.8								111.4
8000	64.0	65.2	67.0	69.3	72.0	76.0	77.6	80.8	82.2	80.6	74.7								111.5
10000	62.8	64.0	65.8	69.1	71.8	75.6	78.1	80.0	83.3	79.8	72.8								111.7
12500	63.5	64.2	65.9	69.6	72.7	75.8	78.7	80.4	83.3	79.5	73.3								112.0
16000	61.8	63.0	64.3	68.3	71.7	75.2	77.0	80.2	82.8	77.8	72.2								111.6
20000	62.0	63.5	65.7	69.7	73.0	76.9	78.5	81.0	82.9	79.1	73.0								112.9
25000	61.9	62.9	64.6	69.7	73.1	75.9	77.1	78.6	81.3	77.1	70.7								111.9
31500	60.9	62.3	64.4	69.8	73.4	76.6	77.3	79.6	80.9	76.9	68.8								113.0
40000	60.1	60.3	61.9	66.5	70.8	72.8	74.6	75.3	77.9	73.8	64.2								111.8
50000	61.2	59.7	61.2	63.3	69.0	68.4	69.7	70.3	72.3	69.1	59.8								108.3
63000	61.6	59.2	60.9	60.6	66.5	63.8	63.6	63.2	65.4	63.0	57.2								106.7
80000	64.2	63.1	60.9	60.4	67.8	59.6	60.1	58.9	60.2	58.8	57.0								109.3
OVERALL MEASURED																			
OVERALL CALCULATED	81.5	81.9	84.0	86.3	87.7	89.2	90.3	92.0	94.0	92.3	88.4								124.6
PNDB	91.1	91.9	93.4	95.5	97.5	99.5	101.0	102.6	105.0	104.5	99.3								

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 8
LOC SCHENECTADY
DATE 12/10/74
RUN 32/1
TAPE
BAR 29.6 HG (99923. N/M2)
TAMB 40. DEG F (278. DEG K)
TDET 37. DEG F (276. DEG K)
HACT 4.97 GM/M3 (.00497 KG/M3)
NFA 5442. RPM (570. RAD/SEC)
NFK 5544. RPM (581. RAD/SEC)
NFS 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 475. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)															
FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.0	53.2	57.6	60.A	60.8	59.9	55.A	48.7	47.0	49.5	47.8						
125	44.5	44.9	49.2	47.7	48.2	45.8	45.5	47.8	48.7	45.8	45.2						
160	41.4	42.8	43.4	44.6	44.9	44.8	45.9	46.5	47.1	46.7	45.4						
200	40.3	41.4	43.1	44.5	46.8	47.9	47.6	48.2	48.4	48.3	46.2						
250	44.4	45.6	47.2	48.4	49.5	49.6	49.5	49.6	48.3	47.6	45.3						
315	45.8	47.0	47.9	48.9	49.4	49.8	48.9	48.7	48.7	46.8	43.8						
400	43.5	45.2	45.8	47.0	47.6	47.7	47.8	47.4	47.6	45.8	43.1						
500	41.9	43.3	44.0	45.0	46.7	48.1	48.7	49.5	49.0	46.9	42.3						
630	44.5	45.7	47.4	49.1	50.7	52.3	53.1	52.6	51.6	49.0	43.8						
800	45.9	46.3	46.7	48.5	52.0	52.4	52.2	52.0	51.9	49.3	42.5						
1000	41.5	42.9	44.6	47.1	49.4	51.0	52.1	52.8	53.2	50.1	40.9						
1250	44.3	43.8	48.7	52.1	53.1	55.2	56.7	57.7	56.3	54.9	43.3						
1600	40.4	40.9	44.8	47.4	48.7	50.6	51.2	51.2	49.6	48.1	38.1						
2000	38.2	40.9	42.6	44.3	46.3	47.1	46.8	47.0	47.8	45.0	36.9						
2500	38.4	41.0	42.9	45.9	47.6	49.2	49.1	49.5	52.8	46.2	37.4						
3150	37.1	38.7	41.1	43.9	45.9	48.1	48.7	49.2	51.2	46.5	35.7						
4000	39.0	41.4	43.8	46.7	49.4	51.2	52.7	53.3	54.6	51.4	38.3						
5000	36.9	38.9	41.5	44.4	47.7	50.6	52.4	54.0	52.7	48.0	36.4						
6300	34.6	38.9	41.5	44.4	47.3	50.7	52.4	53.0	53.9	48.4	35.4						
8000	34.8	37.6	40.4	43.2	46.2	50.0	50.8	52.6	51.8	48.4	33.4						
10000	31.7	34.7	37.6	41.5	44.5	48.0	49.7	50.1	50.8	42.8	27.8						
12500	20.6	32.4	35.4	39.9	43.2	45.9	47.9	47.8	47.7	38.7	22.4						
16000	23.2	26.9	29.9	34.9	38.6	41.7	42.3	43.3	42.1	30.6	11.9						
20000	17.4	22.1	26.3	31.5	35.1	38.5	38.7	38.4	35.6	23.3	0.2						
25000	8.5	13.7	18.1	24.6	28.5	30.7	30.0	27.9	24.4	9.3							
31500		1.7	7.3	14.7	18.8	21.3	19.5	17.0	10.1								
40000					1.3	2.4	0.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.5	57.9	60.9	63.4	64.3	64.9	64.7	64.9	64.8	61.9	55.7						
PNDB	64.7	66.6	69.0	71.6	73.8	75.6	76.5	77.0	77.6	74.2	64.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 12 DAY 12 HR. 11.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	75.2	76.1	72.9	71.4	70.1	70.4	70.4	69.2	74.2	77.3	80.7							108.3
125	70.2	70.4	72.4	70.7	71.6	70.9	71.1	73.5	75.2	77.1	80.2							107.8
160	69.0	69.1	68.9	69.7	70.1	70.2	71.9	73.2	75.7	78.1	80.7							107.7
200	68.0	67.6	68.9	69.7	71.4	73.6	73.6	75.5	77.4	79.8	81.4							109.1
250	71.9	72.1	72.6	72.9	73.9	74.4	75.1	76.2	77.2	78.6	79.6							109.5
315	73.0	72.9	73.4	74.2	74.6	75.2	74.6	75.7	76.4	78.3	79.6							109.6
400	71.3	71.6	71.9	72.2	72.1	73.2	73.9	75.0	76.4	78.1	78.9							108.6
500	69.0	69.4	69.9	70.7	71.6	73.4	74.4	75.5	77.2	77.8	77.7							108.3
630	71.8	71.6	72.9	73.4	75.4	77.2	78.4	79.2	80.5	79.8	77.9							111.3
800	72.3	73.4	74.4	73.7	76.1	77.2	78.3	78.5	79.7	80.1	77.4							111.3
1000	69.1	69.6	70.1	72.2	74.6	76.2	77.6	79.7	81.4	80.3	76.1							111.1
1250	68.5	68.4	69.9	71.7	73.7	76.0	77.6	79.0	80.7	80.6	76.2							110.7
1600	69.1	69.2	71.1	72.8	75.7	78.0	77.8	78.5	80.2	80.1	75.7							111.0
2000	66.9	68.4	68.6	70.3	72.2	73.2	73.8	75.2	76.7	76.4	73.4							107.5
2500	67.1	68.2	69.1	71.6	73.5	75.0	74.8	74.4	77.2	78.4	72.6							107.9
3150	67.6	67.7	68.3	70.9	73.5	76.0	77.0	78.4	83.0	80.1	74.9							111.1
4000	68.8	69.4	70.5	73.6	76.5	78.7	79.9	82.6	85.1	81.3	75.8							113.7
5000	67.2	68.4	70.2	72.3	75.2	78.7	82.1	84.3	84.6	81.6	76.2							114.2
6300	67.8	69.0	70.2	73.0	75.8	79.4	81.9	84.1	86.1	82.3	76.3							114.8
8000	67.0	69.1	70.0	73.5	75.5	79.6	81.4	85.3	86.5	83.5	76.9							115.4
10000	66.0	68.0	69.8	73.0	75.6	79.2	82.4	84.3	86.6	82.5	75.6							115.3
12500	67.0	68.4	69.9	73.1	76.7	79.0	82.3	84.9	87.0	82.1	76.6							115.8
16000	65.0	66.9	68.0	71.5	74.9	78.0	80.4	83.7	85.5	79.9	74.7							114.6
20000	65.0	68.0	69.0	72.9	76.3	79.9	82.5	84.8	87.7	81.7	76.0							116.8
25000	64.4	68.8	68.9	73.2	76.4	79.2	80.9	83.6	85.5	80.7	74.2							116.0
31500	63.7	68.7	68.9	73.5	77.2	80.1	80.9	83.6	84.6	80.0	72.3							116.7
40000	62.3	67.5	67.7	70.4	73.6	76.6	78.7	80.1	82.2	77.2	67.4							115.2
50000	62.5	67.9	67.4	67.7	70.3	72.9	74.3	74.6	76.3	73.4	62.1							112.4
63000	62.9	67.6	68.1	66.1	66.0	69.2	70.2	67.2	68.9	69.1	58.5							110.0
80000	65.2	68.6	70.4	67.3	67.8	68.9	68.4	61.4	63.0	67.1	58.0							114.3
OVERALL MEASURED																		
OVERALL CALCULATED	83.8	84.8	85.3	86.9	89.1	91.5	93.3	95.4	97.4	94.5	91.7							127.7
PNDB	94.2	94.9	95.8	97.9	100.3	102.5	104.2	106.0	106.0	105.7	101.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	51.5	53.4	50.8	49.7	48.5	48.7	48.2	46.2	49.8	50.6	50.6						
VEHICLE R-55 125	46.5	47.6	50.2	48.9	50.0	49.1	48.8	50.3	50.7	50.4	49.9						
CONFIG 8 160	45.1	46.2	46.7	47.8	48.4	48.3	49.5	50.0	51.1	51.3	50.2						
LOC SCHENECTADY 200	44.0	44.6	46.6	47.7	49.6	51.7	51.2	52.2	52.7	52.9	50.7						
DATE 12/10/74 250	47.9	49.0	50.2	50.9	52.0	52.3	52.6	52.8	52.3	51.5	48.8						
RUN 32/2 315	48.8	49.7	50.9	52.1	52.7	53.0	52.0	52.2	51.5	51.1	48.5						
TAPE 400	47.0	48.4	49.3	50.0	50.1	50.9	51.1	51.4	51.3	50.7	47.6						
BAR 29.6 MB 500	44.6	46.0	47.2	48.4	49.5	51.1	51.5	51.8	52.0	50.3	46.1						
(99923. N/M2) 630	47.3	48.2	50.1	51.1	53.2	54.8	55.4	55.4	55.1	52.1	46.1						
TAMB 40. DEG F 800	47.6	49.8	51.5	51.2	53.8	54.7	55.3	54.5	54.2	52.1	45.3						
(278. DEG K) 1000	44.2	45.9	47.1	49.6	52.2	53.5	54.4	55.6	55.7	52.2	43.7						
TWET 37. DEG F 1250	43.8	44.5	46.7	49.0	51.1	53.2	54.3	54.7	54.8	52.2	43.3						
(276. DEG K) 1600	43.9	45.1	47.8	49.9	52.9	55.0	54.3	54.0	54.1	51.4	42.4						
HACT 4.87 GM/M3 2000	41.4	44.1	45.1	47.2	49.3	50.1	50.1	50.5	50.3	47.3	39.7						
(.00497 KG/M3) 2500	41.4	43.7	45.4	48.3	50.4	51.7	50.9	49.5	50.6	46.0	38.4						
NFA 6213. RPM 3150	41.6	42.9	44.3	47.3	50.1	52.4	52.8	53.2	56.0	50.3	40.0						
(651. RAD/SEC) 4000	42.2	44.1	46.1	49.6	52.7	54.7	55.3	56.8	57.6	50.8	39.8						
NFK 6330. RPM 5000	40.4	42.8	45.5	48.1	51.2	54.4	57.3	58.2	58.9	50.5	39.6						
(663. RAD/SEC) 6300	40.1	42.6	44.7	48.1	51.1	54.4	56.3	57.2	57.2	50.0	37.9						
NFB 8023. RPM 8000	37.8	41.5	43.4	47.4	49.7	53.5	54.8	57.1	56.0	49.2	35.8						
(924. RAD/SEC) 10000	34.9	38.6	41.6	45.5	48.2	51.5	54.0	54.3	54.0	45.8	30.4						
NO. OF BLADES 15 12500	33.1	36.6	39.3	43.3	47.2	49.2	51.5	52.3	51.4	41.3	25.8						
FAN TIP SPEED 16000	28.5	30.9	33.6	38.1	41.8	44.5	45.7	46.8	44.9	32.6	14.4						
542. FT/SEC 20000	20.4	26.6	29.6	34.7	38.4	41.5	42.7	42.2	40.4	29.9	3.2						
25000	11.0	19.6	22.3	28.1	31.7	33.9	33.8	32.9	28.7	12.8							
31500		8.1	11.8	18.6	22.8	24.8	23.1	21.0	13.9								
40000				0.3	4.3	6.4	4.9										
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.7	60.2	61.2	62.5	64.4	65.1	66.9	67.6	67.5	64.8	59.6						
PNDB	67.8	69.7	71.5	74.1	76.6	78.8	79.6	80.3	80.6	78.5	68.7						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM — PROG. DATE - MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.0	73.6	72.9	71.2	70.9	71.7	71.1	72.2	76.5	80.6	84.1							109.8
125	76.2	79.9	79.6	76.7	74.1	74.4	73.9	77.2	78.7	81.3	84.1							112.5
160	72.0	73.6	72.1	72.9	72.9	73.2	75.1	76.7	79.2	81.8	83.0							111.1
200	71.0	71.4	71.4	72.4	74.4	77.1	76.6	78.9	80.7	83.3	85.1							112.5
250	74.4	75.1	75.4	76.4	77.1	77.6	78.3	79.1	81.0	82.8	83.6							113.0
315	76.0	76.6	76.4	77.2	77.9	78.2	77.8	78.6	80.2	82.1	83.6							113.8
400	74.3	74.6	74.4	75.2	75.4	76.4	76.9	77.9	79.5	81.1	82.6							111.7
500	71.8	72.9	72.4	73.4	74.5	76.7	77.4	79.2	80.2	81.8	81.1							111.6
630	74.8	74.4	75.1	76.2	77.9	80.2	80.9	81.4	82.5	82.1	81.8							113.8
800	75.3	75.4	76.6	76.4	78.4	80.4	80.6	81.1	82.5	82.8	81.4							114.0
1000	72.6	72.4	73.1	74.9	76.9	78.9	79.8	81.1	82.5	82.1	79.4							113.0
1250	71.6	71.4	72.9	75.0	76.7	78.5	79.6	80.9	82.2	82.4	79.4							112.9
1600	71.3	71.4	72.9	74.8	76.5	78.5	78.6	78.9	79.5	79.4	77.1							111.3
2000	70.4	71.2	72.4	73.8	75.5	77.0	77.8	78.1	79.7	78.8	76.4							110.7
2500	70.9	71.5	72.9	75.1	77.5	78.0	77.6	77.1	79.5	77.7	75.6							110.8
3150	70.4	70.5	72.1	74.1	76.8	79.3	80.0	80.6	84.8	80.7	76.8							113.8
4000	71.8	72.7	74.6	77.6	80.5	82.0	83.7	85.3	88.7	83.6	78.5							116.9
5030	73.3	74.7	76.0	75.9	78.7	81.9	84.9	85.7	85.6	82.6	78.0							116.1
6330	70.6	71.7	72.7	75.7	78.4	82.2	84.9	86.3	88.6	84.5	78.3							117.3
8000	70.2	71.9	73.8	76.7	79.5	82.8	86.0	87.5	89.3	85.5	79.4							118.3
10030	69.1	70.8	73.1	76.8	79.6	83.2	86.0	87.7	89.1	83.8	78.1							118.3
12500	69.5	71.2	73.7	76.9	80.8	83.3	85.8	87.6	89.8	84.1	78.3							118.8
16000	67.8	69.5	71.6	75.3	79.0	81.8	84.7	86.9	87.9	82.2	77.2							117.7
20000	68.;	70.6	72.6	76.7	80.6	83.2	85.6	88.2	90.8	84.7	78.0							120.0
25000	67.9	70.6	72.9	76.7	80.4	83.0	85.0	87.5	89.1	83.7	77.8							119.7
31500	67.0	70.8	73.5	77.8	81.4	83.9	85.0	87.0	88.2	83.0	75.8							120.3
40000	64.8	69.0	70.6	74.6	77.6	80.8	82.7	83.7	84.9	80.2	73.4							118.6
50000	63.9	68.3	68.8	70.1	73.9	76.3	78.3	78.1	79.8	76.3	69.9							115.8
63000	64.9	67.4	68.5	66.9	69.6	72.6	72.0	71.0	72.7	70.8	64.8							112.8
80000	67.6	68.8	70.1	67.3	68.6	68.7	68.4	67.8	68.2	67.4	65.5							115.2
OVERALL MEASURED																		
OVERALL CALCULATED	86.4	87.7	88.4	90.1	92.5	94.8	96.7	98.3	100.1	96.9	95.8							130.6
PNDB	97.1	98.0	98.2	101.4	103.7	105.6	107.1	108.3	110.7	107.6	104.7							

CONFIG 8
LGC SCHENECTADY
DATE 12/10/74
RUN 32/3
TAPE
BAR 29.6 HG
(99923. N/M2)
TAMB 41. DEG F
(278. DEG K)
T-ET 37. DEG F
(276. DEG K)
HACT 4.07 GM/M3
(.00467 KG/M3)
NFA 6990. RPM
(732. RAD/SEC)
NFK 7115. RPM
(745. RAD/SEC)
NFJ 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
610. FT/SEC

RADIAL 17. FT.
(5. M)
VEHICLE R-SS

ORIGINAL PAGE IS
OF POOR QUALITY

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 HR. 11.6

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (0.06 MI)
VEHICLE R-55
CONFIG 8
LOC SCHENECTADY
DATE 12/10/74
RUN 323
TAPE
BAR 29.6 IN HG (99923. N/M2)
TAMB 41. DEG F (278. DEG K)
TWET 37. DEG F (276. DEG K)
HACT 4.87 GM/M3 (.00487 KG/M3)
NFA 4990. RPM (732. RAD/SEC)
NFK 7115. RPM (745. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 618. FT/SEC

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)																	
	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	
50																		
63																		
80																		
100	45.3	50.9	50.8	49.5	49.3	49.9	48.9	49.1	52.0	54.8	54.0							
125	52.5	57.1	57.5	54.9	52.5	52.6	51.6	54.0	54.2	54.7	53.9							
160	48.1	50.7	49.9	51.1	51.1	51.3	52.7	53.4	54.6	55.0	53.4							
200	47.0	48.4	49.1	50.5	52.6	55.2	54.2	55.6	56.0	56.4	54.4							
250	53.4	53.0	53.3	54.4	55.2	55.6	55.8	55.7	56.1	55.5	52.7							
315	51.8	53.5	53.9	55.1	55.9	56.0	55.2	55.1	55.2	54.8	52.5							
400	53.6	51.4	51.8	53.0	53.3	54.2	54.1	54.3	54.4	53.7	51.3							
500	47.4	49.5	49.7	51.2	52.7	54.4	54.5	55.4	55.0	54.8	49.5							
630	50.0	50.9	52.4	53.8	55.7	57.8	57.9	57.5	57.1	54.3	49.8							
800	50.6	51.8	53.7	54.0	56.0	57.9	57.5	57.2	56.9	54.9	49.2							
1000	47.7	48.6	50.1	52.3	54.4	56.3	56.7	57.0	56.8	53.9	48.9							
1250	46.6	47.5	49.7	52.3	54.1	55.7	56.3	56.6	56.3	53.9	48.5							
1600	46.1	47.3	49.5	51.9	53.7	55.5	55.1	54.4	53.4	50.7	43.8							
2000	44.9	46.9	48.8	50.7	52.5	53.9	54.1	53.4	53.4	49.6	42.6							
2500	45.2	47.0	49.2	51.8	54.4	54.7	53.7	52.2	52.9	48.3	41.4							
3150	44.3	45.7	48.1	50.6	53.4	55.7	55.8	55.3	57.0	50.8	41.9							
4000	45.3	47.4	50.1	53.7	56.7	58.0	59.1	59.5	61.1	53.0	42.5							
5000	43.4	45.1	47.3	51.6	54.7	57.7	60.0	59.7	57.7	51.6	41.3							
6300	42.8	45.4	47.3	50.8	53.6	57.2	58.3	59.4	58.7	52.3	39.8							
8000	41.1	44.3	47.2	50.7	53.7	56.8	59.2	59.3	58.8	51.3	38.1							
10000	38.0	41.4	44.9	49.3	52.3	55.6	57.6	57.8	56.6	46.9	32.9							
12500	35.6	39.4	43.1	47.1	51.3	53.5	55.0	55.0	54.2	43.3	27.3							
16000	29.3	33.5	37.2	41.9	45.9	48.3	50.6	50.0	47.2	34.9	16.9							
20000	23.5	29.1	33.4	38.5	42.7	44.8	45.8	45.7	43.5	29.8	5.2							
25000	14.6	21.4	26.3	31.6	35.7	37.7	37.8	38.8	32.2	15.9								
31500	0.9	10.2	16.3	22.7	26.9	28.5	27.1	24.5	17.4									
40000				4.5	8.3	10.4	8.9	3.8										
50000																		
63000																		
80000																		
OVERALL CALCULATED	61.1	63.4	64.4	65.7	67.4	69.1	69.9	69.9	69.8	66.7	63.8							
PNLD	70.8	72.9	74.9	77.7	80.1	81.7	82.5	82.7	83.3	77.7	69.7							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 NO. 11.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.3	71.6	72.4	72.7	73.4	74.7	73.6	74.7	78.0	83.8	87.6							112.6
VEHICLE R-SS	125	76.5	76.6	76.4	75.9	77.1	77.9	78.1	79.9	81.5	84.1	87.1							114.2
CONFIG 8	160	75.0	75.6	75.1	75.9	76.1	76.7	78.4	79.0	82.7	85.1	87.0							114.6
LGC SCHEDULED	200	74.0	73.1	73.9	74.9	77.4	79.9	79.9	81.6	83.5	86.6	88.3							115.5
DATE 12/10/74	250	79.3	79.4	80.9	81.4	82.4	83.9	84.6	85.6	86.2	86.3	88.8							118.6
RUN 32/4	315	79.8	79.4	79.4	79.9	80.9	81.4	81.3	82.1	84.8	86.1	87.1							118.5
TAPE	400	78.1	78.1	77.6	78.2	78.6	79.4	80.1	81.4	83.0	85.3	86.1							115.2
BAR 29.6 HG	500	75.6	75.4	75.6	76.7	77.9	79.4	80.9	81.9	84.0	85.1	84.9							114.9
(100023. N/M2)	630	77.1	76.6	77.9	79.2	80.4	82.4	83.6	84.4	85.0	85.8	84.9							116.0
TAMB 40. DEG F	800	78.6	77.9	78.6	79.7	81.1	82.2	83.1	83.8	85.0	85.3	84.6							116.5
(278. DEG K)	1000	75.9	75.6	76.4	78.4	79.6	81.7	82.1	83.9	85.2	84.8	83.3							115.0
TMET 37. DEG F	1250	75.2	74.4	75.6	78.2	79.7	81.2	82.1	82.9	84.5	84.4	82.6							115.3
(276. DEG K)	1600	74.4	73.9	75.6	77.3	79.8	80.2	80.8	80.6	81.5	82.4	80.0							113.7
HACT 0.97 GM/M3	2000	75.2	74.9	75.6	77.8	79.7	81.0	81.3	82.6	83.2	83.4	81.1							115.1
(.000497 KG/M3)	2500	74.2	74.7	75.8	78.4	80.5	81.3	81.0	80.8	82.5	80.8	79.3							114.0
NFA 7773. RPM	3150	73.2	73.8	74.6	77.1	79.8	81.7	81.5	82.3	84.5	81.1	78.1							114.6
(814. RAD/SEC)	4000	75.4	76.4	78.5	82.1	84.5	85.2	87.2	88.7	91.7	86.6	81.8							120.3
NFK 7919. RPM	5000	73.1	73.1	75.5	78.6	81.2	84.2	87.4	87.9	88.9	84.8	79.9							118.6
(829. RAD/SEC)	6300	73.6	74.7	76.2	79.5	83.1	86.1	88.1	89.7	91.6	85.3	80.5							120.4
NFB 8023. RPM	8000	73.8	74.9	77.0	79.5	82.5	86.6	87.9	90.2	93.2	87.2	81.4							121.4
(924. RAD/SEC)	10000	73.1	74.2	76.8	79.8	82.8	86.7	88.7	91.8	91.1	85.7	80.8							121.0
NO. OF BLADES 15	12500	73.6	73.7	77.1	81.1	83.7	86.8	89.5	91.5	92.8	86.8	81.3							122.8
FAN TIP SPEED	16000	71.1	72.4	75.3	78.5	82.4	86.7	87.6	90.3	90.3	84.1	79.7							120.6
670. FT/SEC	20000	71.6	73.2	76.7	79.9	84.8	86.6	89.0	92.2	93.8	86.9	81.2							123.1
	25000	71.7	73.6	77.1	80.9	84.1	86.9	89.6	92.5	92.5	87.2	80.9							123.9
	31500	71.3	73.5	77.2	81.5	84.9	87.4	88.9	90.7	91.1	85.8	78.3							123.8
	40000	69.4	70.7	74.7	78.2	81.9	84.3	86.2	87.5	88.5	83.2	75.8							122.2
	50000	66.8	67.9	71.7	73.8	77.3	79.9	82.3	82.2	82.8	79.1	68.8							119.3
	63000	69.9	66.1	69.1	68.6	71.8	73.5	75.4	74.7	75.4	72.4	65.4							115.5
	80000	72.7	69.1	70.4	68.3	69.6	69.2	68.4	68.8	69.7	68.6	68.7							116.8
OVERALL MEASURED																			
OVERALL CALCULATED		89.7	89.8	91.2	93.4	95.9	98.1	100.0	101.6	102.9	99.7	98.4							133.8
	PNDB	108.5	101.8	102.5	105.1	107.2	108.7	110.2	111.8	113.7	110.6	107.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	45.6	48.9	50.3	51.0	51.9	52.9	51.4	51.6	54.5	57.3	57.5						
VEHICLE R-35 125	52.8	53.8	54.2	54.1	55.5	54.1	55.0	56.0	58.9	57.4	56.9						
CONFIG 8 160	51.2	52.7	52.8	54.1	54.4	54.8	56.8	56.7	58.1	58.3	57.4						
LCC SCHENECTADY 200	50.1	50.1	51.6	53.8	55.6	57.9	57.4	58.3	58.7	59.1	57.7						
DATE 12/10/74 250	55.2	56.3	58.5	59.4	60.5	61.8	62.1	62.2	61.3	61.2	58.8						
RUN 32/4 315	55.6	56.2	56.9	57.8	58.2	59.3	58.7	58.6	59.8	58.8	58.8						
TAPE 400	53.8	54.9	55.1	58.0	56.8	57.2	57.4	57.8	57.8	57.9	54.8						
BAR 29.6 MG 500	51.2	52.0	53.0	54.4	55.7	57.1	58.8	58.2	58.7	57.5	53.3						
(99923. N/M2) 630	52.6	53.2	55.1	56.8	58.2	60.0	60.7	60.5	59.6	58.1	53.8						
TAMB 40. DEG F 800	53.9	54.3	55.7	57.2	58.8	59.7	60.8	59.7	59.4	57.4	52.5						
(278. DEG K) 1000	51.1	51.9	53.3	55.8	57.2	58.8	58.9	58.7	58.5	56.4	50.9						
TWET 37. DEG F 1250	50.2	50.5	52.5	55.5	57.1	56.4	54.8	58.6	58.6	55.9	49.8						
(276. DEG K) 1600	49.2	49.8	52.3	54.4	56.7	57.3	57.3	56.1	55.4	53.7	47.3						
HACT 4.97 GM/M3 2000	49.7	50.6	52.1	54.7	56.8	57.8	57.6	57.9	58.8	54.3	47.4						
(.00497 KG/M3) 2500	48.5	50.2	51.8	53.1	57.4	57.9	57.2	55.7	55.9	51.3	45.1						
NFA 7773. RPM 3150	47.1	48.1	50.6	53.6	56.4	58.2	57.3	57.1	57.5	51.3	43.2						
(814. RAD/SEC) 4000	48.8	51.1	54.1	58.1	60.7	61.2	62.6	63.8	64.1	56.8	49.5						
NFB 9919. RPM 5000	46.2	47.6	50.8	54.4	57.2	59.9	62.5	61.9	60.8	53.8	43.3						
(829. RAD/SEC) 6300	45.7	48.3	50.7	54.6	58.3	61.2	62.5	62.9	62.7	53.8	42.1						
NFB 8023. RPM 8000	44.6	47.3	50.4	53.4	56.7	60.5	61.1	62.1	62.8	53.8	40.1						
(924. RAD/SEC) 10000	42.8	44.9	48.6	52.2	55.5	59.8	60.3	61.0	58.6	48.8	34.8						
NO. OF BLADES 15 12500	39.7	41.8	46.6	51.3	54.2	57.0	58.7	59.0	56.4	46.0	30.3						
FAN TIP SPEED 16000	32.5	36.4	40.9	45.1	49.3	51.2	52.9	53.4	49.6	36.9	19.3						
879. FT/SEC 20000	27.0	31.8	37.3	41.7	46.1	48.3	49.2	49.6	45.6	31.2	8.4						
25000	18.5	24.2	30.6	35.8	39.5	41.7	42.8	41.8	35.7	19.3							
31500	5.2	12.9	20.1	26.4	30.3	32.8	31.1	28.2	20.4	8.2							
40000			1.0	8.8	12.6	13.9	12.4	7.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.3	65.3	66.9	68.8	70.7	72.3	72.9	73.1	73.8	70.5	66.6						
PNDB	74.3	75.9	76.3	81.3	83.6	84.9	86.7	85.9	84.3	80.8	73.8						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	75.5	75.9	80.1	82.9	83.1	82.2	78.1	72.7	70.5	76.1	77.4							113.8
VEHICLE RUSS	125	69.5	66.1	69.1	67.9	71.1	68.2	67.4	69.9	71.5	74.3	74.9							104.6
CONFIG 8R	160	66.0	66.4	66.1	66.7	67.4	66.7	67.6	69.2	71.7	74.3	75.4							103.8
LOC SCHENECTADY	200	66.5	65.1	66.4	66.9	68.1	70.1	70.4	71.9	73.2	75.8	76.8							105.3
DATE 12/9/74	250	68.8	68.9	69.9	70.1	71.1	71.4	72.3	72.1	73.5	75.1	75.6							106.2
RUN 31/4	315	70.0	70.1	70.9	70.9	71.4	72.2	71.3	71.6	72.7	74.3	74.3							106.1
TAPE	400	69.3	68.9	69.1	69.4	70.1	70.7	70.9	71.6	72.7	74.3	74.6							105.4
BAR 29.5 HG	500	67.3	67.6	67.6	67.9	69.1	71.2	71.9	72.9	73.7	74.6	74.1							105.5
(99457. N/M2)	630	69.9	70.1	70.9	71.4	73.2	74.9	76.1	76.7	77.0	76.8	74.8							108.7
TAMB 47. DEG F	800	74.1	72.4	73.9	73.2	75.1	77.4	78.3	78.4	79.2	79.3	76.9							111.0
(281. DEG K)	1000	68.9	68.6	69.6	71.4	74.6	77.7	79.8	81.1	82.7	83.3	77.8							112.7
TWET 43. DEG F	1250	72.7	68.4	73.1	76.5	83.4	85.7	88.3	88.9	87.5	86.4	78.1							119.1
(279. DEG K)	1600	67.9	65.7	68.6	71.5	77.5	80.2	82.3	82.4	80.2	79.9	72.9							112.9
HACT 6.13 GM/M3	2000	64.4	64.9	66.6	67.6	69.7	71.0	71.6	72.6	74.0	74.6	70.6							105.1
(.00613 KG/M3)	2500	66.7	67.7	68.6	71.3	72.7	73.7	74.5	76.8	79.2	79.9	71.1							108.9
NFA 5494. RPM	3150	64.4	64.2	66.1	68.6	70.3	72.7	73.5	75.8	78.5	77.4	70.3							107.6
(575. RAD/SEC)	4000	66.1	66.7	67.8	71.1	74.2	76.2	77.4	79.7	82.4	81.8	74.5							111.6
NFK 5559. RPM	5000	64.8	64.9	66.7	69.3	72.4	74.9	76.6	80.7	80.1	80.3	74.2							110.6
(582. RAD/SEC)	6300	65.3	65.9	67.1	69.9	72.5	75.9	78.6	80.5	82.6	80.2	73.7							111.5
NFD 8823. RPM	8000	64.7	65.6	66.9	69.9	72.5	75.8	78.1	80.9	82.7	81.4	74.6							111.9
(924. RAD/SEC)	10000	64.5	64.4	66.2	69.5	72.0	75.3	78.6	80.6	82.8	79.4	73.2							111.7
NO. OF BLADES 15	12500	66.0	65.3	66.5	70.2	73.2	76.0	78.5	81.2	83.5	79.8	73.9							112.4
FAN TIP SPEED	16000	63.7	63.8	64.7	67.9	71.3	74.6	77.0	80.2	82.0	77.8	72.1							111.3
480. FT/SEC	20000	64.7	63.9	65.3	69.3	72.4	76.0	77.9	80.8	82.9	79.1	72.6							112.7
	25000	65.3	65.0	65.5	69.3	72.2	74.8	76.8	79.1	80.2	77.1	70.6							111.5
	31500	65.1	64.8	65.5	69.4	72.7	76.0	77.0	79.0	79.7	76.8	69.4							112.4
	40000	65.8	64.2	65.3	67.3	70.3	73.0	74.5	75.9	77.3	74.3	65.2							111.2
	50000	68.4	66.0	67.2	66.5	68.6	70.1	71.1	71.5	73.1	70.9	63.7							110.1
	63000	70.8	66.7	68.9	66.8	68.3	68.4	68.6	67.3	69.2	67.5	64.5							111.3
	80000	74.2	69.5	72.0	68.9	69.3	70.4	69.8	66.9	68.6	68.5	67.0							117.2
OVERALL MEASURED																			
OVERALL CALCULATED		83.8	82.8	85.1	87.0	89.5	91.2	92.9	94.1	94.8	93.5	88.8							120.5
PNDB		92.3	92.3	93.8	96.2	99.1	101.1	103.0	104.2	105.8	105.1	99.8							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 8R
LOC SCHENECTADY
DATE 12/9/74
RUN 31/4
TAPE
BAR 29.5 IN HG (99857. N/M2)
TAMB 47. DEG F (281. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 6.13 GM/M3 (.00613 KG/M3)
NFA 5494. RPM (575. RAD/SEC)
NFK 5559. RPM (582. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 480. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.9	53.2	58.1	61.2	61.5	60.4	55.9	49.6	46.0	49.5	47.3						
125	45.8	43.3	47.0	46.1	49.5	46.3	45.1	46.8	46.9	47.7	44.8						
160	42.2	43.5	43.9	44.8	45.6	44.8	45.2	45.9	47.1	47.5	44.9						
200	42.6	42.1	44.1	45.0	46.3	46.2	47.9	48.6	48.5	48.6	46.2						
250	44.7	45.8	47.5	48.1	49.2	49.3	49.8	48.7	48.6	48.0	44.7						
315	45.9	47.0	48.4	48.8	49.4	50.0	48.7	48.1	47.7	47.1	43.3						
400	44.0	45.6	46.6	47.2	48.1	48.4	48.1	48.0	47.6	46.9	43.3						
500	42.2	44.3	45.0	45.7	47.0	48.9	49.0	49.2	48.5	47.0	42.5						
630	45.3	46.7	48.1	49.1	50.9	52.5	53.2	52.8	51.6	49.1	42.8						
800	49.4	48.8	51.0	50.7	52.8	54.9	56.3	54.4	53.7	51.4	44.7						
1000	44.1	44.9	46.6	48.8	52.2	55.0	56.7	57.0	57.0	55.2	45.1						
1250	47.7	44.5	50.0	53.8	60.8	62.9	65.0	64.6	61.6	57.9	45.3						
1600	42.7	41.6	45.3	48.6	54.7	57.3	58.8	57.9	54.1	51.2	39.6						
2000	39.0	40.6	43.1	44.5	46.8	47.9	47.9	47.9	47.6	45.8	36.9						
2500	41.0	43.2	44.9	46.1	49.6	50.4	50.7	53.9	52.6	46.5	36.9						
3150	38.4	39.4	42.1	45.1	46.8	49.1	49.3	50.6	51.5	47.5	35.4						
4000	39.5	41.4	43.3	47.1	50.4	52.2	52.8	54.0	54.8	51.2	38.5						
5050	37.9	39.3	42.0	45.1	48.4	50.6	53.7	54.6	52.2	49.3	37.8						
6300	37.6	39.5	41.7	45.0	47.8	50.9	53.0	53.6	53.7	47.9	35.3						
8030	35.6	38.0	40.3	43.9	46.6	49.7	51.3	52.8	52.3	47.2	33.3						
10000	33.4	35.1	38.0	41.9	44.7	47.7	50.2	50.7	50.2	42.5	28.8						
12500	32.1	33.5	36.0	40.5	43.6	46.1	47.7	48.6	47.8	38.9	23.8						
16000	25.2	27.8	30.3	34.5	38.2	41.1	42.3	43.3	41.3	30.5	11.7						
20000	20.1	22.4	26.0	31.1	34.5	37.7	38.1	38.3	35.8	23.3							
25000	12.0	15.7	18.9	24.2	27.8	29.6	28.7	28.5	23.4	9.2							
31500		4.2	8.4	14.2	18.2	20.6	19.2	16.5	9.0								
40000					1.0	2.5	0.8										
50000																	
63000																	
80000																	
OVERALL CALC DBA	57.9	58.4	61.6	64.0	66.4	67.6	66.4	66.2	66.5	63.6	56.8						
PNDB	66.1	67.4	69.6	72.3	75.8	77.7	79.0	79.1	78.2	74.8	64.3						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PREC. DATE - MONTH 12 DAY 12 HR. 11.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PNL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.5	75.6	73.6	70.4	69.9	70.2	71.6	70.9	73.7	76.6	60.1							107.9
VEHICLE RISS	125	71.3	69.1	70.9	69.7	71.6	70.9	71.1	72.9	75.0	76.8	79.1							107.3
CONFIG 6R	160	68.5	69.4	69.4	69.4	69.9	69.7	71.1	73.2	75.5	77.6	79.9							107.4
LCC SCHEDULED	200	68.5	67.9	68.6	69.7	70.9	73.9	73.9	75.6	77.2	78.1	80.6							108.9
DATE 12/9/74	250	72.3	71.9	73.4	73.1	73.9	74.4	75.3	75.6	77.0	78.6	79.8							109.5
RUN 31/3	315	73.5	73.4	73.6	74.4	74.9	75.7	75.1	75.6	77.0	78.3	79.3							109.9
TAPE	400	71.3	71.4	71.6	72.4	72.9	73.7	73.9	74.9	76.5	78.1	78.6							108.7
BAR 29.5 HG	500	69.8	70.1	69.9	70.7	71.6	74.2	74.6	75.9	77.5	78.1	77.4							108.6
(99857. N/M2)	630	72.1	72.1	72.9	73.9	75.4	77.4	78.6	79.2	80.0	79.8	77.9							111.4
TAMB 47. DEG F	800	75.4	73.9	74.9	74.9	76.6	78.7	79.3	79.9	80.5	80.3	78.4							112.3
(281. DEG K)	1000	73.6	73.6	73.9	72.7	75.4	77.9	80.1	81.6	83.2	83.3	78.1							113.2
THET 43. DEG F	1250	70.4	68.9	70.6	73.7	76.7	79.5	81.8	83.4	84.7	84.9	78.6							114.6
(279. DEG K)	1600	70.2	69.4	73.6	78.5	82.7	86.2	87.3	85.4	82.2	85.1	77.4							117.5
HACT 6.13 GM/M3	2000	67.9	67.9	68.9	70.6	72.5	74.2	74.6	75.6	77.0	77.1	73.3							108.6
(.00613 KG/M3)	2500	69.2	68.9	69.4	72.1	74.0	75.0	75.0	76.3	77.2	75.4	72.1							109.3
NFA 6278. RPM	3150	67.6	67.7	69.3	71.1	73.5	76.5	77.5	79.1	82.2	81.4	74.6							111.3
(657. RAD/SEC)	4000	68.8	69.7	70.8	73.8	76.7	78.9	80.4	82.5	85.4	81.6	76.8							113.9
NFK 6352. RPM	5000	67.8	68.1	70.2	73.1	75.9	78.9	82.9	84.7	85.3	82.3	76.7							114.8
(665. RAD/SEC)	6300	67.8	68.9	70.4	72.9	76.0	80.4	83.1	84.2	86.1	82.2	76.0							115.1
NFD 8023. RPM	8000	66.3	68.8	70.7	73.4	76.0	80.3	81.9	84.8	86.9	83.7	77.6							115.7
(924. RAD/SEC)	10000	67.2	67.7	69.9	73.2	75.5	79.6	82.4	84.9	86.8	82.2	75.7							115.5
NO. OF BLADES 15	12500	68.0	68.3	69.8	73.5	76.9	79.7	82.7	85.0	87.2	82.0	76.7							116.0
FAN TIP SPEED	16000	65.2	66.0	67.7	71.4	74.3	77.9	81.0	84.0	85.7	80.1	74.6							114.8
848. FT/SEC	20000	65.7	66.4	68.3	72.8	75.9	79.5	81.7	85.1	86.9	81.3	75.8							115.4
	25000	66.5	66.5	68.8	72.3	76.0	78.6	81.1	83.4	84.9	80.1	73.8							115.0
	31500	65.6	66.1	69.0	72.9	76.2	79.7	81.0	83.3	84.2	79.3	72.1							114.4
	40000	65.8	65.2	67.3	70.3	73.8	76.7	79.0	80.4	82.1	77.3	69.7							113.3
	50000	68.2	66.0	68.0	67.8	70.3	73.4	75.1	74.7	76.8	73.4	65.0							112.9
	63000	70.5	67.2	68.9	67.3	68.8	69.7	70.1	69.3	71.5	68.7	64.5							112.2
	80000	74.2	69.2	72.0	68.9	69.3	70.4	69.8	68.9	68.8	68.5	67.0							117.2
OVERALL MEASURED																			
OVERALL CALCULATED		84.9	84.6	85.7	87.4	90.8	92.9	94.7	96.1	97.6	95.2	91.7							120.4
PNOB		94.7	95.0	96.2	96.5	101.3	104.2	105.5	104.8	104.3	100.3	102.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS 159. DEG. F, 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT.
(60.96 M)
VEHICLE B-55
CONFIG 8R
LOC SCHENECTADY
DATE 12/9/74
RUN 31/5
TAPE
BAR 29.5 HG
(99457. N/M2)
TAMB 47. DEG F
(281. DEG K)
TWET 43. DEG F
(279. DEG K)
HACT 6.13 GM/M3
(.00613 KG/M3)
NFA 6276. RPM
(657. RAD/SEC)
NFK 6352. RPM
(665. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
940. FT/SEC

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.9	52.9	51.6	48.7	48.3	48.4	49.4	47.8	49.3	50.0	50.0						
125	47.5	46.3	48.7	47.9	50.0	49.1	48.8	49.8	50.4	50.2	48.9						
160	44.7	46.5	47.2	47.6	48.1	47.8	48.7	49.9	50.8	50.8	49.4						
200	44.6	44.9	46.3	47.7	49.1	51.9	51.4	52.3	52.5	52.1	49.9						
250	48.2	48.8	51.0	51.1	52.0	52.3	52.8	52.2	52.1	51.5	48.7						
315	49.4	50.2	51.1	52.3	52.9	53.5	52.5	52.1	52.0	51.1	48.3						
400	47.0	48.1	49.1	50.2	50.8	51.4	51.1	51.3	51.4	50.7	47.3						
500	45.4	45.8	47.2	48.4	49.5	51.9	51.8	52.2	52.2	50.5	45.8						
630	47.6	48.7	50.1	51.6	53.2	55.0	55.7	55.3	54.6	52.1	46.0						
800	50.7	50.3	52.0	52.5	54.3	56.2	56.3	55.9	54.9	52.4	46.2						
1000	45.8	46.9	47.8	50.1	52.9	55.3	56.9	57.5	57.5	55.2	45.6						
1250	45.4	45.3	47.5	51.0	54.1	56.7	58.5	59.1	58.8	56.4	45.8						
1600	44.9	45.3	50.3	55.6	59.9	63.3	63.8	60.9	56.1	56.6	44.1						
2000	42.5	43.6	45.3	47.5	49.5	51.1	50.9	50.9	50.6	48.1	39.6						
2500	42.5	44.4	45.6	48.8	50.9	51.7	51.2	51.4	50.8	46.0	37.9						
3150	41.6	42.9	45.3	47.6	50.1	52.9	53.3	53.8	55.2	51.5	39.6						
4000	42.3	44.4	46.3	49.9	52.9	54.9	55.8	56.7	57.8	51.9	40.0						
5000	40.9	42.5	45.5	48.8	51.9	54.6	58.0	58.6	57.4	51.3	40.0						
6300	40.1	42.5	44.9	48.0	51.3	55.4	57.5	57.3	57.2	49.9	37.5						
8000	38.8	41.2	44.1	47.4	50.1	54.2	55.1	56.8	56.5	49.5	36.3						
10000	36.2	38.3	41.8	45.7	48.2	52.0	54.0	54.9	54.2	45.3	38.5						
12500	34.1	36.5	39.3	43.7	47.4	49.9	51.9	52.4	51.6	41.2	28.7						
16000	26.7	30.0	33.3	38.0	41.2	44.4	46.3	47.1	45.8	32.8	14.2						
20000	21.1	24.2	29.0	34.6	38.0	41.2	41.9	42.5	39.5	25.8	3.1						
25000	13.2	17.2	22.2	27.2	31.3	33.3	34.0	32.7	28.1	12.2							
31500		5.5	11.9	17.7	21.7	24.3	23.2	20.8	13.5								
40000				0.2	4.5	6.3	5.3	0.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.1	60.2	61.6	63.4	65.8	68.3	69.2	68.8	68.2	65.1	59.2						
PNDB	68.3	69.9	71.9	74.9	78.0	80.7	81.5	81.1	80.9	76.3	66.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 12 HR. 11.6

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																
		53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.
	FREQ.	(0.92)	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. M)	100	72.5	71.4	72.4	70.7	71.6	71.2	71.1	71.9	75.7	80.3	84.1						109.7
VEHICLE R-55	125	76.0	79.1	78.9	76.9	76.1	74.9	74.4	76.9	78.5	80.6	83.1						112.2
CONFIG 6H	160	74.0	72.6	72.1	72.9	73.4	73.7	74.9	76.2	79.0	81.6	83.9						111.1
LOC SCHENECTADY	200	73.8	70.9	72.1	72.4	74.4	74.4	76.9	78.4	80.5	83.1	84.8						112.4
DATE 12/9/74	250	76.0	74.9	76.4	76.1	76.9	77.9	79.1	79.4	81.2	82.1	83.8						113.2
RUN 31/6	315	77.0	76.6	76.9	77.4	78.1	78.7	78.3	78.6	80.7	82.3	83.1						113.3
TAPE	400	75.6	74.4	74.4	75.7	75.6	76.7	77.1	78.1	79.7	81.8	82.8						112.1
BAR 29.5 HG	500	74.3	72.9	72.6	73.7	75.4	76.7	78.4	79.2	80.5	81.6	81.6						112.8
(99857. N/M2)	630	76.1	73.9	75.4	76.4	78.7	80.4	81.1	81.7	82.5	82.6	81.1						114.1
TAMB 48. DEG F	800	77.9	76.1	76.9	78.9	79.1	80.7	81.8	82.1	83.0	82.8	80.9						114.6
(282. DEG K)	1000	74.9	72.9	73.6	75.4	77.6	80.2	81.3	83.1	84.2	83.3	80.1						114.5
TWET 43. DEG F	1250	75.2	73.4	73.6	76.5	78.4	80.7	82.6	83.1	85.2	85.4	80.6						115.4
(279. DEG K)	1600	74.7	71.9	73.6	75.5	77.7	80.5	82.6	82.1	81.7	82.4	79.1						114.0
HACT 5.84 GM/M3	2000	74.4	71.2	72.4	74.1	75.5	77.2	78.8	80.4	80.2	79.9	78.8						111.6
(.00584 KG/M3)	2500	74.4	71.2	73.1	75.1	77.2	78.3	78.8	78.3	80.0	77.9	75.8						111.3
NFA 7059. RPM	3150	73.6	70.2	71.8	74.4	76.3	79.2	80.0	81.6	84.2	81.1	76.3						113.4
(739. RAD/SEC)	4000	74.8	72.7	75.0	77.9	81.3	82.2	84.4	85.7	88.6	84.1	79.2						117.3
NFK 7135. RPM	5000	73.8	70.6	73.5	76.3	79.2	81.6	85.4	86.7	86.9	82.8	78.4						116.8
(747. RAD/SEC)	6300	75.1	71.4	73.7	75.9	79.1	82.6	85.6	87.0	89.3	84.0	78.5						117.9
NFD 8823. RPM	8000	75.0	72.4	73.9	76.9	79.7	83.5	86.1	88.7	90.0	85.4	79.8						119.0
(924. RAD/SEC)	10000	75.0	70.9	73.5	77.0	79.3	83.1	85.9	88.2	90.1	84.2	78.3						118.6
NO. OF BLADES 18	12500	75.0	71.1	73.6	77.3	80.7	83.3	86.3	88.5	90.0	84.6	79.0						119.3
FAN TIP SPEED	16000	74.8	68.9	71.3	75.2	78.2	81.4	84.6	87.5	88.0	82.6	77.7						118.0
610. FT/SEC	20000	74.8	69.0	72.2	76.1	80.0	82.3	85.3	88.6	90.9	83.9	78.4						120.1
	25000	74.7	69.3	72.4	76.2	79.6	82.4	85.2	88.2	89.5	82.8	77.7						120.8
	31500	73.7	69.0	72.9	77.5	80.4	83.3	84.9	87.2	88.3	82.4	75.2						120.3
	40000	72.8	67.2	70.8	74.3	77.5	80.7	82.5	84.1	85.3	80.0	70.4						118.9
	50000	73.7	66.6	69.5	70.8	73.4	76.4	78.6	79.3	80.6	76.1	66.5						116.5
	63000	74.5	66.9	69.2	67.8	69.8	71.7	72.8	72.3	73.7	70.5	65.3						114.3
	80000	74.6	69.8	71.9	69.0	69.5	70.3	69.7	68.8	69.7	68.4	66.9						117.3
OVERALL MEASURED																		
OVERALL CALCULATED		89.7	87.4	88.6	90.3	92.6	95.0	97.1	99.0	100.6	97.1	95.0						131.1
PNLB		100.2	97.9	99.6	101.7	104.1	105.9	107.8	109.1	111.1	108.3	105.0						

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 HR. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																		
63																		
80																		
100	48.9	48.7	50.3	49.0	50.0	49.4	48.9	48.8	51.3	53.8	54.0							
125	52.3	56.3	56.7	55.1	54.5	53.1	52.1	53.8	53.9	53.9	52.9							
160	50.2	49.7	49.9	51.1	51.6	51.8	52.5	52.9	54.3	54.8	53.4							
200	49.8	47.9	49.8	50.5	52.6	54.4	54.4	55.1	55.7	56.1	54.2							
250	52.0	51.8	54.0	54.1	55.0	55.8	56.6	56.0	56.3	55.9	53.0							
315	52.9	53.5	54.4	55.3	56.2	56.5	55.7	55.1	55.7	55.1	52.0							
400	51.3	51.1	51.8	53.5	53.6	54.4	54.4	54.5	54.6	54.2	51.5							
500	49.9	49.5	50.0	51.4	53.2	54.4	55.5	55.4	55.2	54.0	50.0							
630	51.6	50.4	52.6	54.1	56.4	58.0	58.2	57.8	57.1	54.8	49.3							
800	53.2	52.5	54.3	54.5	56.8	58.2	58.8	58.2	57.4	54.9	48.7							
1000	50.1	49.1	50.6	52.8	55.2	57.5	58.2	59.0	58.5	55.2	47.6							
1250	50.2	47.5	50.5	53.8	55.8	57.9	59.3	58.8	59.3	56.9	47.8							
1600	49.4	47.8	50.3	52.6	54.9	57.5	59.1	57.8	55.8	53.7	45.8							
2000	49.0	48.9	48.8	51.0	52.5	54.1	55.1	55.7	53.9	50.8	42.9							
2500	48.7	48.7	49.4	51.8	54.1	54.9	54.2	53.4	53.4	48.5	41.6							
3150	47.6	45.4	47.8	50.8	52.9	55.6	55.8	56.3	57.2	51.3	41.4							
4000	48.3	47.4	50.6	53.9	57.2	58.2	59.8	60.0	61.1	53.5	43.2							
5000	46.9	45.1	48.8	52.1	55.1	57.4	60.5	60.6	58.9	51.8	41.8							
6300	47.3	45.1	48.2	51.0	54.3	57.6	60.0	60.1	60.4	51.7	40.1							
8000	45.8	44.7	47.3	50.9	53.9	57.5	59.3	60.5	59.5	51.2	38.6							
10000	44.0	41.6	45.3	49.5	52.0	55.5	57.5	58.2	57.5	47.3	33.1							
12500	41.1	39.3	43.0	47.5	51.2	53.4	55.5	55.9	54.4	43.7	28.0							
16000	36.3	32.9	36.6	41.8	45.0	47.9	48.9	50.6	47.3	38.3	17.3							
20000	30.2	27.5	32.8	37.9	42.1	44.0	45.5	46.1	43.6	28.1	5.8							
25000	21.3	20.1	25.8	31.1	34.9	37.2	38.0	37.5	33.7	15.1								
31500	7.7	8.3	15.8	22.3	25.8	26.0	27.0	24.6	17.6									
40000				4.2	8.2	10.3	8.8	3.9										
50000																		
63000																		
80000																		
OVERALL CALCULATED	63.3	63.1	64.6	66.8	67.9	69.6	70.7	70.8	70.6	67.1	62.9							
PNDB	73.9	72.8	75.4	77.9	80.5	82.1	83.3	83.5	83.7	78.2	78.1							

SIDELINE 230. FT.
(60.96 M)
VEHICLE R-SS
CONFIG 8K
LOC SCHENECTADY
DATE 12/9/74
RUN 31/6
TAPE
BAR 29.5 HG
(99457. N/M2)
TAMB 40. DEG F
(282. DEG K)
THET 43. DEG F
(279. DEG K)
HACT 5.64 GM/M3
(.00364 KG/M3)
NFA 7059. RPM
(739. RAD/SEC)
NFK 7135. RPM
(747. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
616. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 12 HR. 11.?

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE RUNS
CONFIG 8N
LOC SCHENECTADY
DATE 12/9/74
RUN 31/7
TAPE
BAR 29.5 MG (99457. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 43. DEG F (279. DEG K)
HACT 5.84 GM/M3 (.00584 KG/M3)
NFA 7843. RPM (821. RAD/SEC)
NFK 7926. RPM (830. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 665. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.3	71.4	72.9	72.4	72.6	73.9	73.1	74.7	79.2	84.3	86.1							113.0
125	78.5	77.1	75.9	75.2	76.6	77.4	78.1	79.7	81.7	84.1	87.4							114.4
160	76.5	75.4	76.1	75.9	76.4	76.4	78.4	79.9	82.5	85.3	87.6							114.6
200	75.3	73.1	75.6	75.4	77.4	79.6	80.1	81.9	83.7	86.3	88.8							115.8
250	79.8	79.6	81.4	81.9	82.9	84.1	84.3	86.1	86.2	88.3	88.8							118.8
315	79.5	79.9	80.1	80.4	80.9	81.7	81.6	82.1	83.7	85.8	87.3							118.6
400	78.3	77.9	78.1	78.4	79.1	79.9	80.1	81.6	83.2	85.1	86.8							115.5
500	75.8	75.4	76.4	76.9	77.9	80.2	81.4	82.7	84.0	84.8	85.4							115.3
630	77.1	77.1	78.1	79.2	80.7	82.2	83.9	84.2	85.2	85.6	84.9							116.7
800	79.6	78.4	78.4	79.7	80.9	82.7	83.8	84.1	85.2	85.1	85.1							116.9
1000	76.4	75.6	76.1	78.2	80.4	82.2	83.6	84.6	86.0	85.1	83.6							116.5
1250	75.2	74.4	75.9	78.5	80.7	82.7	83.6	84.1	85.5	85.4	83.1							116.4
1600	74.7	74.2	76.1	77.8	79.7	82.2	82.6	81.9	83.5	84.4	81.6							115.2
2000	75.9	77.9	79.9	83.9	85.5	83.7	86.8	89.9	88.7	88.4	83.1							120.1
2500	73.9	74.5	76.1	78.8	80.5	81.0	80.8	81.6	83.0	81.4	79.8							114.3
3150	73.4	73.2	74.8	76.9	79.3	81.5	81.3	82.6	84.5	81.1	78.3							114.6
4000	76.8	76.7	79.3	83.9	85.0	85.7	88.2	90.0	92.4	87.3	82.7							121.2
5000	73.3	73.6	76.2	78.8	81.7	84.4	88.1	87.9	89.1	85.3	81.2							119.1
6300	74.1	74.7	76.4	79.7	83.3	86.6	89.9	91.0	91.1	85.7	81.0							121.1
8000	74.0	75.1	76.9	79.9	82.5	86.3	88.9	91.2	93.2	87.9	82.1							121.8
10000	73.5	73.9	76.7	80.5	83.5	86.6	88.9	91.2	92.1	86.4	81.3							121.5
12500	74.0	74.6	77.1	81.0	84.5	87.0	90.0	92.0	93.2	87.6	82.2							122.7
16000	72.3	72.6	75.0	78.2	81.9	85.4	87.8	90.8	90.8	85.4	80.7							121.1
20000	73.3	74.0	75.9	79.9	83.0	86.6	88.8	92.1	93.2	86.6	81.6							123.1
25000	73.2	73.6	76.4	80.2	83.6	86.4	89.2	91.9	93.6	87.2	81.9							123.7
31500	72.2	73.0	77.1	81.2	84.1	86.6	88.9	90.7	91.6	85.9	79.5							123.8
40000	71.0	70.7	74.8	78.5	81.5	84.7	86.3	88.1	89.3	84.0	74.7							122.6
50000	71.2	68.3	72.0	74.1	77.4	80.2	82.6	82.8	83.9	79.6	69.6							119.9
63000	72.3	67.2	70.2	69.3	72.3	73.9	76.1	75.5	77.0	73.5	66.5							116.5
80000	74.6	70.6	71.9	69.3	70.5	70.5	71.2	76.1	71.2	69.6	66.9							118.0
OVERALL MEASURED																		
OVERALL CALCULATED	90.5	90.1	91.7	94.0	96.2	98.3	100.5	102.4	103.4	100.2	98.9							134.3
PNDB	101.4	101.3	103.2	106.2	107.6	109.2	111.1	112.6	114.3	111.4	108.6							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-SS
CONFIG 8A
LOC SCHENECTADY
DATE 12/9/74
RUN 31/7
TAPE
BAR 29.5 HG (999.7 MB)
TAMB 46. DEG F (282. DEG K)
THET 43. DEG F (279. DEG K)
HACT 5.84 GM/M3 (.00504 KG/M3)
NFA 7843. RPM (821. RAD/SEC)
NFR 7928. RPM (830. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 685. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.6	48.7	50.8	50.7	51.0	52.2	50.9	51.6	54.0	57.8	58.0						
125	54.8	54.3	53.7	53.4	55.0	55.6	55.8	56.5	57.2	57.4	57.1						
160	52.7	52.5	53.9	54.1	54.6	54.5	56.0	56.7	57.8	58.5	57.1						
200	51.3	50.1	53.3	53.5	55.6	57.7	57.7	58.6	59.6	59.4	58.2						
250	55.7	56.5	59.0	59.9	61.0	62.1	61.8	62.7	61.3	61.2	58.8						
315	55.4	56.7	57.6	58.3	58.9	59.5	59.0	58.6	58.7	58.6	56.3						
400	54.0	54.5	55.6	56.2	57.1	57.7	57.4	58.0	58.1	57.7	55.5						
500	51.4	52.3	53.7	54.7	55.7	57.9	58.5	58.9	58.7	57.3	53.8						
630	52.6	53.7	55.4	56.8	58.4	59.8	60.9	60.3	59.9	57.8	53.0						
800	54.9	54.8	55.5	57.2	58.5	60.2	60.8	60.2	59.7	57.1	53.0						
1000	51.6	51.9	53.1	55.5	57.9	59.5	60.4	60.5	60.3	56.9	51.1						
1250	52.2	50.5	52.7	55.8	58.1	59.9	60.3	59.8	59.6	56.9	50.3						
1600	49.4	50.1	52.8	54.9	56.9	58.3	59.1	57.4	57.4	55.7	48.3						
2000	50.5	53.6	56.3	60.7	62.5	60.6	63.1	65.2	62.4	59.3	49.4						
2500	48.2	49.9	52.4	55.3	57.4	57.7	58.9	58.7	58.4	52.0	45.6						
3150	47.4	48.4	50.8	53.3	55.9	57.9	57.1	57.3	57.5	51.3	43.9						
4000	50.3	51.4	54.8	59.9	61.2	61.7	63.6	64.2	64.8	58.7	48.7						
5000	46.4	48.1	51.5	54.6	57.6	60.1	63.2	61.9	61.2	54.3	44.6						
6300	46.3	48.3	51.0	54.8	58.6	61.6	64.2	64.1	62.2	53.5	42.8						
8000	44.8	47.5	50.3	53.9	58.7	60.2	62.1	63.0	62.8	53.7	40.8						
10000	42.5	44.6	48.5	53.0	58.2	59.0	60.5	61.2	59.5	49.5	38.1						
12500	40.1	42.8	46.3	51.3	54.9	57.2	59.2	59.4	57.6	46.7	31.3						
16000	33.8	36.6	40.6	44.8	48.8	51.9	53.1	53.9	50.1	38.1	28.3						
20000	28.7	32.5	36.5	41.6	45.1	48.2	49.0	49.8	45.9	38.9	8.9						
25000	19.8	24.3	29.8	35.1	38.9	41.2	42.0	41.3	38.2	19.3							
31500	6.2	12.3	20.8	28.1	29.5	31.2	31.0	28.1	20.8	0.3							
40000			2.8	8.4	12.2	14.3	12.5	7.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.0	65.8	67.5	69.6	71.6	72.7	73.9	74.2	73.5	70.4	66.9						
PNDB	75.2	76.3	79.0	82.5	84.2	85.3	86.7	87.8	86.9	81.3	73.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 12 NO. 11.7

PERCEIVED SOUND PRESSURE LEVELS (59. DEG, F= 70 PERCENT REL. HUM, DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0.	0.	0.	0.	0.	PNL
50																		
63																		
RADIAL 17. FT. 80																		
(5. KT) 100	83.8	72.3	73.6	72.8	73.9	74.4	74.6	75.4	78.9	83.2	87.3							113.5
VEHICLE ROSS 125	83.8	77.6	76.4	75.6	77.4	78.1	78.4	79.6	81.6	83.5	87.3							114.9
CONFIG 6R 160	83.8	76.1	75.6	75.9	76.6	76.9	78.4	79.9	82.4	84.5	87.3							115.8
LOC SCHENECTADY 200	83.8	74.3	75.3	75.9	77.9	79.9	80.1	81.4	83.6	85.9	88.5							116.8
DATE 12/9/74 250	84.5	79.1	81.6	81.8	82.3	83.6	84.8	85.1	85.9	87.4	88.3							118.8
RUN 31/8 315	84.8	79.3	79.8	79.9	80.6	81.9	81.6	81.9	83.4	84.9	87.8							118.8
TAPE 400	82.9	78.3	78.3	78.6	79.1	80.4	80.8	81.4	82.9	84.5	86.1							115.7
BAR 29.5 MG 500	81.6	76.6	77.1	77.4	78.1	80.1	81.3	83.1	83.6	84.5	85.1							115.5
(99857. N/M2) 630	81.1	77.8	78.6	79.4	80.9	82.7	84.1	84.8	84.9	85.2	84.6							117.1
TAMB 48. DEG F 800	85.8	80.8	83.1	80.6	83.1	83.9	85.3	85.4	85.9	85.8	85.8							118.5
(282. DEG K) 1000	82.1	77.1	77.3	78.1	80.9	82.9	83.6	84.8	86.1	84.5	83.3							116.9
T-ET 43. DEG F 1250	81.4	75.3	76.6	78.4	80.7	82.7	83.8	84.1	85.9	84.7	82.8							116.7
(279. DEG K) 1600	83.9	74.9	78.1	78.8	80.2	82.2	83.1	82.3	83.4	83.8	80.8							115.4
HACT 5.64 GM/M3 2000	80.4	78.1	80.3	83.5	85.5	83.5	87.1	89.8	87.8	87.8	82.6							118.8
(.00504 KG/M3) 2500	80.6	75.1	78.6	78.3	80.2	81.2	80.8	81.6	82.8	80.3	79.8							114.5
NFA 7042. RPM 3150	79.6	73.6	74.5	76.8	79.5	81.2	81.5	83.8	84.9	80.5	78.3							114.9
(821. RAD/SEC) 4000	81.1	77.1	79.2	83.1	84.5	85.4	88.2	89.9	92.3	86.7	82.2							121.1
NFK 7927. RPM 5000	79.5	74.1	75.2	79.3	82.2	84.4	87.4	88.4	89.8	84.9	80.6							119.8
(830. RAD/SEC) 6300	79.8	74.9	76.8	79.6	83.8	86.8	89.6	90.4	91.8	89.1	86.7							125.8
NFB 8023. RPM 8000	79.5	75.1	77.2	79.6	83.2	86.5	88.8	90.9	92.9	87.3	82.8							121.8
(924. RAD/SEC) 10000	79.8	74.6	77.7	80.4	83.8	86.8	88.7	91.4	92.2	85.1	80.7							121.7
NO. OF BLADES 15 12500	80.7	75.6	77.5	81.2	84.4	87.2	89.5	91.7	93.2	86.2	81.7							122.5
FAN TIP SPEED 16000	80.8	73.3	75.4	78.7	82.1	85.1	87.1	90.2	90.9	84.5	79.8							120.9
885. FT/SEC 20000	80.3	74.2	76.4	80.1	83.5	86.3	88.8	91.8	92.8	86.8	81.1							122.9
25000	81.1	78.8	77.3	80.8	83.8	86.6	89.1	92.2	92.7	86.3	81.8							123.8
31500	83.2	81.4	77.6	81.4	84.1	87.8	88.9	91.4	91.8	84.6	78.8							124.1
40000	80.8	78.1	78.8	79.8	82.3	84.6	86.8	87.8	88.5	82.9	75.4							122.7
50000	80.7	75.5	77.2	76.5	79.8	81.4	83.1	83.2	84.3	80.8	73.7							121.3
63000	82.2	76.6	79.1	78.9	78.5	79.1	79.3	78.3	79.4	76.8	74.2							121.8
80000	84.8	78.8	81.8	78.7	79.2	80.2	79.7	78.8	78.4	77.7	76.9							127.8
OVERALL MEASURED																		
OVERALL CALCULATED	96.9	91.8	92.9	94.2	96.5	98.6	100.5	102.4	103.3	99.5	98.6							130.2
PNLB	106.7	101.8	103.4	105.9	107.7	109.2	111.2	112.6	114.2	110.7	108.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 12 NO. 11.7

NOISE SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 203. FT.	80																	
(60.96 M)	100	60.1	49.8	51.5	50.9	52.3	52.6	52.4	52.5	54.9	56.7	57.3						
VEHICLE ROSE	125	60.0	54.8	54.2	52.8	53.7	50.3	54.1	54.5	57.1	56.8	57.1						
CONFIG 8A	160	59.9	53.2	53.4	54.8	54.9	55.8	56.8	56.6	57.8	57.8	58.9						
LOC SCHEHECTADY	200	59.6	51.3	53.8	53.9	56.1	57.9	57.6	58.8	58.9	59.8	57.9						
DATE 12/8/74	250	59.9	56.8	59.2	59.8	60.5	61.8	62.3	61.7	61.8	60.3	57.4						
RUN 31/8	315	59.8	58.1	57.3	57.8	58.8	59.7	59.9	58.3	58.4	57.7	58.8						
TAPE	400	58.5	55.3	55.8	54.4	57.1	58.2	58.1	57.7	57.8	57.8	54.7						
BAR 29.5 MG	500	57.2	53.2	54.4	55.1	56.8	57.8	58.5	59.4	58.4	56.9	53.5						
(99857. N/M2)	630	59.6	54.3	55.8	57.8	58.7	60.2	61.2	60.8	59.5	57.5	52.7						
TAMB 46. DEG F	800	61.2	57.2	60.2	58.2	60.8	61.4	62.3	61.4	60.4	57.8	53.7						
(282. DEG K)	1000	57.3	53.3	54.3	55.5	56.4	59.3	60.4	60.7	60.4	56.3	50.8						
THET 43. DEG F	1250	56.4	51.4	53.4	55.7	56.1	58.9	60.5	59.8	60.8	56.3	50.8						
(279. DEG K)	1600	55.7	50.8	52.7	55.1	57.4	59.2	59.6	57.8	57.3	54.3	47.6						
HACT 5.84 GM/M3	2000	54.9	53.8	56.8	60.4	62.5	60.3	63.4	64.9	61.5	58.7	48.8						
(.00584 KG/M3)	2500	55.0	58.6	62.8	64.8	67.1	67.9	66.8	66.6	66.3	66.8	44.9						
NFA 7842. RPM	3150	53.6	60.8	58.5	63.3	66.1	67.6	67.3	67.8	67.8	66.7	43.4						
(821. RAD/SEC)	4000	54.5	61.8	64.8	69.1	69.6	61.4	63.5	64.2	64.7	66.1	40.2						
NFK 7827. RPM	5000	52.7	60.5	61.8	65.1	66.1	68.1	62.5	62.3	61.1	53.8	44.8						
(820. RAD/SEC)	6300	52.1	60.3	61.2	64.7	66.3	61.9	64.8	63.8	62.1	52.8	42.3						
NF3 8023. RPM	8000	58.3	67.4	68.6	63.6	67.4	68.4	61.8	62.7	62.5	53.1	40.8						
(924. RAD/SEC)	10000	48.7	65.3	69.5	62.9	65.7	59.2	60.2	61.7	58.7	48.2	35.5						
NO. OF BLADES 15	12500	46.8	43.7	47.8	51.5	54.9	57.4	58.7	59.1	57.4	45.4	30.7						
FAN TIP SPEED	16000	41.5	37.3	41.1	45.2	49.8	51.6	52.4	53.4	50.3	37.2	19.5						
805. FT/SEC	20000	35.7	32.7	37.8	41.8	45.8	47.9	48.9	49.3	45.5	30.2	8.3						
	25000	27.8	28.5	30.7	35.5	39.2	41.4	42.8	41.5	38.9	18.4							
	31500	17.1	21.8	20.5	26.3	29.5	31.7	31.8	28.9	20.2								
	40000			4.8	8.9	12.9	14.2	13.8	7.6									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		70.8	66.2	68.2	69.6	71.6	72.9	74.8	74.1	73.4	69.7	66.6						
	PNDB	66.6	70.8	70.3	62.2	64.1	68.3	66.7	67.1	66.9	66.7	73.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 12 NO. 11.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. N)	100	76.8	79.1	80.4	82.9	83.1	82.2	78.4	72.9	71.0	75.3	77.1							113.8
VEHICLE ROSS	125	74.3	66.6	69.9	67.7	69.6	68.4	68.1	70.4	72.0	73.6	74.9							104.9
CONFIG 6R	160	73.5	66.1	66.4	66.4	68.9	68.9	68.1	69.7	72.2	73.6	75.4							104.4
LOC SCHENECTADY	200	73.3	64.8	66.1	67.2	68.4	69.6	78.1	72.1	73.7	75.6	76.8							105.8
DATE 12/9/74	250	73.8	68.8	69.4	79.1	78.9	71.9	72.3	72.6	73.2	74.6	75.6							100.4
RUN 31/9	315	73.6	78.4	79.4	78.9	71.9	71.7	71.3	71.6	73.6	74.3	74.8							100.4
TAPE	400	73.8	68.6	68.6	69.4	70.1	70.7	71.1	71.4	73.2	74.3	74.6							103.8
BAR 29.5 MG	500	72.3	67.4	67.4	68.2	69.1	71.4	71.4	73.4	74.6	74.8	73.9							103.9
(99857. N/M2)	630	73.1	69.6	78.9	71.4	73.2	74.9	76.1	76.7	77.2	77.1	74.8							110.9
TAMB 47. DEG F	800	76.6	72.6	73.9	73.2	73.4	74.9	77.6	78.1	79.8	79.3	78.8							116.9
(281. DEG K)	1000	72.6	68.6	69.1	78.9	74.4	77.7	79.6	81.1	82.7	83.3	77.1							112.7
TSET 63. DEG F	1250	73.9	68.4	73.4	76.7	83.7	85.7	88.1	88.6	87.2	87.1	78.6							119.1
(290. DEG K)	1600	78.9	63.9	69.6	71.8	78.2	80.5	82.3	81.9	80.7	79.8	73.8							113.8
MACT 6.13 GM/M3	2000	78.4	65.2	66.1	67.8	69.7	71.8	71.6	72.9	73.7	74.6	78.3							105.3
(.00613 KG/M3)	2500	78.4	67.7	69.1	71.1	72.2	74.8	74.3	78.1	79.2	75.9	78.8							106.8
NFA 5499. RPM	3150	69.1	64.4	66.1	67.9	78.3	72.7	73.3	75.6	78.7	77.4	78.8							107.7
(576. RAD/SEC)	4000	78.1	67.2	68.8	78.3	74.8	76.7	77.7	79.7	82.1	82.3	74.2							111.7
NFK 5564. RPM	5000	69.8	64.9	66.7	68.1	71.7	75.1	78.1	80.2	80.6	79.8	73.4							110.7
(583. RAD/SEC)	6300	78.6	65.9	67.4	69.7	72.8	75.9	78.6	80.2	82.6	80.7	73.5							111.6
NF3 6023. RPM	8000	78.2	65.8	66.9	69.9	72.5	75.8	78.1	80.8	82.7	81.9	74.8							112.1
(924. RAD/SEC)	10000	78.8	64.7	66.4	69.5	72.3	75.8	78.1	79.9	82.8	79.9	73.2							111.8
NO. OF BLADES 15	12500	78.5	65.3	66.8	69.5	73.2	76.8	78.7	80.5	83.5	79.8	73.4							112.3
FAN TIP SPEED	16000	69.7	63.5	64.7	68.1	71.6	74.4	78.5	80.8	82.5	77.8	72.1							111.4
488. FT/SEC	20000	69.7	64.9	65.6	69.3	72.7	76.8	78.2	80.6	82.9	79.3	72.3							112.7
	25000	72.5	71.8	65.5	68.8	72.2	75.1	76.6	78.4	80.9	77.1	70.6							111.8
	31500	71.8	69.3	65.3	69.4	72.7	75.5	76.7	78.5	80.2	76.8	69.1							112.5
	40000	69.1	64.4	66.1	66.8	78.3	73.2	74.8	75.4	77.8	74.3	65.2							111.3
	50000	78.4	65.5	67.8	66.5	68.6	69.6	78.8	78.7	73.1	78.6	63.7							110.8
	63000	72.8	66.9	69.4	67.1	68.8	68.7	68.4	67.3	69.8	67.7	64.8							111.7
	80000	74.2	69.8	72.8	68.9	69.3	78.4	69.8	68.9	68.3	68.5	67.8							117.1
OVERALL MEASURED																			
OVERALL CALCULATED		87.3	83.2	85.2	86.9	89.6	91.3	92.7	93.8	94.8	93.7	88.8							120.8
	PNDB	94.6	92.5	94.8	95.8	99.1	101.2	102.8	104.8	105.8	105.3	99.8							

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NUPEL SWEPT PRESSURE LEVELS (SEA, LEE, F, 70 PERCENT RAD, MAN, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 236. FT.	80																	
(80.06 M)	100	53.1	53.4	56.3	61.2	61.5	60.4	56.2	49.8	46.5	48.8	47.8						
VEHICLE PASS	125	50.5	43.8	47.7	45.9	48.0	46.6	45.8	47.3	47.4	45.9	44.6						
-GRAPHIC BA	160	49.7	43.2	44.2	44.6	45.1	45.8	45.7	46.4	47.6	46.8	44.9						
LOC SCHENECTADY	200	49.3	41.6	43.8	45.2	46.6	47.7	47.7	48.8	49.0	48.6	46.2						
DATE 12/9/74	250	49.8	45.5	47.8	48.1	49.8	49.8	49.8	49.2	48.3	47.5	44.7						
RUN 31/9	315	49.6	47.2	47.9	48.8	49.9	49.5	48.7	48.1	48.0	47.1	43.8						
TAPE	400	49.5	45.4	46.1	47.2	48.1	48.4	48.4	47.8	48.1	46.9	43.3						
BAR 29.5 MG	500	47.9	44.8	44.7	45.9	47.8	49.1	48.5	49.7	48.7	47.3	42.3						
(99857. N/M2)	630	48.6	48.2	48.1	49.1	50.8	52.5	53.2	52.8	51.9	49.3	42.8						
TAMB 47. DEG F	800	51.8	49.3	51.8	50.7	53.3	54.4	54.5	54.2	53.4	51.4	44.9						
(281. DEG K)	1000	47.8	44.9	46.1	48.3	51.9	55.8	56.4	57.8	57.8	55.2	44.8						
TMET 43. DEG F	1250	48.9	44.3	50.2	54.8	61.1	62.9	64.8	64.3	61.3	58.7	45.8						
(279. DEG K)	1600	45.7	41.8	46.3	54.9	55.4	57.5	58.8	57.4	54.6	51.2	40.3						
MACT 0.13 GM/M3	2000	45.8	40.9	42.6	44.7	46.8	47.9	47.9	48.2	47.4	45.8	36.6						
(+00813 AG/M3)	2500	44.7	43.2	45.4	47.8	49.1	50.7	50.4	53.2	52.4	48.5	38.6						
NFA 5699. RPM	3150	43.1	40.6	42.1	44.3	46.8	49.1	49.1	50.3	51.7	47.9	39.6						
(596. RAD/SEC)	4000	43.5	41.9	43.6	46.4	50.1	52.7	53.0	54.8	54.6	51.7	38.2						
NFK 5944. RPM	5000	42.9	39.3	42.8	44.8	47.6	50.9	53.2	54.1	52.-	48.8	36.8						
(583. RAD/SEC)	6300	42.8	39.5	41.9	44.8	48.0	50.9	53.8	53.3	53.7	48.4	35.8						
NFD 6923. RPM	8000	41.1	38.2	40.3	43.9	46.8	49.7	51.3	52.8	52.3	47.7	33.9						
(724. RAD/SEC)	10000	38.9	35.3	38.3	41.9	44.9	48.2	49.7	49.8	50.2	43.8	28.8						
NO. OF BLADES IS	12500	36.6	33.5	36.3	39.7	43.6	46.1	47.9	47.9	47.8	38.9	22.5						
FAN TIP SPEED	16000	31.2	27.5	30.3	34.7	38.5	40.9	41.8	43.1	41.8	30.5	11.7						
468. FT/SEC	20000	25.1	23.4	26.2	31.1	34.8	37.7	38.4	38.8	35.5	23.8							
	25000	19.2	21.7	18.9	23.7	27.6	29.8	29.5	27.7	24.1	8.2							
	31500	5.8	8.7	8.1	14.2	18.2	20.1	18.9	16.8	4.5								
	40000					1.0	2.8	0.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.4	58.5	61.7	64.8	68.5	69.6	68.3	68.8	68.5	63.8	50.8						
	PNOR	78.4	77.4	79.8	82.1	79.9	77.8	78.9	78.9	78.2	79.1	64.2						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 9 PR. 14.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL PT. PT.		53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.	PWL
		PROG.	(.92)	(1.04)	(1.24)	(1.41)	(1.59)	(1.74)	(1.84)	(2.13)	(2.32)	(2.52)	(2.73)	110.	110.	110.	110.	110.	110.	110.
	S. NO	56																		
VEHICLE 0-55		63																		
CONFIG 0		125	68.0	67.9	67.1	62.2	63.4	67.0	77.4	71.2	71.2	74.8	70.6							112.0
LOC SCHROEDTABY		163	63.5	65.8	66.1	65.7	66.1	67.2	67.1	70.4	71.0	71.8	73.8							103.0
DATE 12/5/74		200	66.5	64.6	66.6	65.7	66.9	66.7	66.6	68.9	71.0	73.3	74.8							103.8
RUN 7774		250	67.5	68.1	68.9	67.4	68.4	68.4	69.9	71.1	72.5	74.8	75.8							104.4
TAPE		315	66.8	70.6	74.9	69.6	68.9	70.9	72.1	72.4	72.2	73.8	74.8							105.4
BAR 30.1 IN		400	66.8	69.9	69.1	69.9	70.4	72.1	72.1	72.4	73.2	73.8	74.1							106.1
(81478. N/M2)		500	67.1	69.6	69.9	73.7	71.6	71.7	71.9	71.9	72.7	73.8	73.3							105.3
TAMB 30. DEG F		630	66.9	72.1	72.9	73.6	74.9	76.2	76.6	74.9	75.7	75.8	74.1							107.2
(277. DEG K)		800	75.9	75.4	75.6	75.4	76.9	78.4	78.1	78.2	77.7	77.8	74.9							109.9
TWET 30. DEG F		1000	71.4	72.6	73.4	74.2	76.8	78.4	79.6	79.4	79.2	78.8	75.8							111.7
(275. DEG K)		1250	72.7	71.4	73.1	76.2	77.7	80.7	83.6	84.9	84.7	85.8	79.1							111.8
RHCT 4.76 SW/M3		1600	68.2	66.9	68.8	71.8	73.8	75.2	77.8	78.4	78.2	78.8	77.4							115.5
(.00476 KG/M3)		2000	62.9	64.7	66.1	67.8	68.2	70.7	71.8	72.4	73.7	73.8	71.9							109.4
MFR 5443. GPM		2500	63.9	64.2	67.4	69.4	71.5	73.8	73.8	74.9	76.5	74.9	69.3							104.6
(343. KG/SEC)		3150	62.7	65.9	65.8	67.9	70.3	73.5	75.8	75.1	76.5	76.8	69.8							100.7
MFR 5551. GPM		4000	67.9	65.2	66.8	68.6	71.2	73.5	74.7	75.5	76.4	76.4	69.8							107.8
(981. KG/SEC)		5000	66.3	61.9	63.8	66.8	67.7	69.8	72.4	73.7	74.8	74.1	65.7							107.1
MFR 6223. GPM		6300	59.9	61.5	61.7	63.5	64.1	66.5	68.7	70.3	72.1	69.3	64.3							104.3
(324. KG/SEC)		8000	64.5	62.4	63.5	65.7	67.3	70.3	72.7	75.7	76.2	73.2	68.4							102.1
NO. OF BLADES IS	1	10000	62.0	63.9	64.3	64.8	66.4	68.7	72.7	75.7	77.2	75.7	70.8							105.8
PAR TIP SPEED		12500	66.3	65.5	66.4	66.6	67.3	71.3	74.1	76.6	79.3	80.3	77.9	72.5						100.4
475. FT/SEC		16000	63.1	63.2	64.3	66.5	70.5	73.2	76.1	78.8	78.8	78.2	71.8							110.1
		20000	64.1	64.8	65.5	68.9	72.3	75.4	78.3	80.4	82.5	78.4	73.8							109.8
		25000	66.4	64.8	66.4	69.2	73.3	76.9	77.2	79.2	80.3	77.4	71.4							112.2
		31533	66.8	64.7	66.4	70.3	73.1	76.8	78.8	80.7	81.4	78.2	70.5							111.0
		40000	64.4	63.4	65.3	67.1	70.8	74.8	76.1	78.2	79.6	76.1	68.8							113.7
		50000	60.6	64.3	66.5	65.3	67.1	69.8	72.4	72.3	73.2	71.3	63.8							112.0
		63000	78.2	67.6	66.7	65.8	66.8	66.7	66.2	67.2	67.7	67.2	63.8							110.1
		80000	79.4	67.2	78.8	66.7	67.8	67.9	66.1	67.8	66.9	66.6	66.2							112.9
OVERALL MEASURED																				115.8
OVERALL CALCULATED		84.3	83.5	85.3	86.6	87.8	88.4	85.8	82.8	82.6	81.7	87.4								
		PWR	98.8	91.9	93.1	94.8	94.7	96.8	100.8	100.9	101.5	101.4	96.4							128.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.9	53.2	58.1	60.5	60.4	59.2	55.2	48.1	46.8	48.3	48.3						
VEHICLE R-55	125	42.3	45.1	49.5	46.4	47.5	45.3	44.8	47.3	46.4	45.2	43.4						
CONFIG 9	160	39.7	42.7	43.9	43.8	44.1	44.8	46.0	45.7	46.3	46.8	44.1						
LOC SCHENECTADY	200	40.6	41.6	44.1	43.7	45.4	47.4	47.4	47.8	47.7	47.8	45.2						
DATE 12/ 9/74	250	43.5	45.0	47.5	47.6	48.0	48.8	49.6	49.0	47.3	46.7	44.0						
RUN 27/4	315	43.9	47.2	48.4	49.3	49.9	50.3	49.5	48.9	48.2	46.8	43.0						
TAPE	400	42.0	45.8	46.8	47.7	48.3	49.4	49.1	48.3	47.6	46.4	42.0						
BAR 30.1 HG	500	42.7	46.0	47.2	48.4	49.5	50.9	51.5	51.2	50.5	48.3	42.8						
(101470. N/M2)	630	45.1	48.7	50.1	51.1	52.7	53.8	54.7	54.3	52.4	50.1	43.0						
TAMB 39. DEG F	800	51.2	51.8	52.7	53.0	54.5	55.9	56.0	55.4	53.7	50.9	43.5						
(277. DEG K)	1000	46.6	48.9	50.3	51.6	54.2	55.8	56.4	56.2	54.5	51.9	42.6						
TWET 36. DEG F	1250	45.7	47.5	50.0	53.5	55.1	57.9	60.3	60.6	58.8	57.2	44.5						
(275. DEG K)	1600	40.9	42.8	45.3	48.1	50.2	52.3	54.3	53.9	52.1	49.9	38.9						
HACT 4.74 GM/M3	2000	37.5	40.4	42.6	44.7	46.3	47.6	47.9	47.7	47.4	44.0	35.1						
(.00474 KG/M3)	2500	38.2	41.7	43.6	46.1	48.4	49.7	49.9	49.9	49.9	45.5	35.1						
NFA 5443. RPM	3150	38.6	40.1	41.8	44.3	46.9	49.9	50.8	49.8	49.5	46.0	34.7						
(570. RAD/SEC)	4000	36.3	39.9	41.6	44.4	47.4	49.4	50.1	49.8	48.8	45.8	33.8						
NFR 5551. RPM	5000	33.5	36.3	38.3	40.6	43.7	45.7	47.5	47.7	46.7	40.0	29.1						
(581. RAD/SEC)	6300	32.1	35.1	36.2	38.6	41.3	43.2	44.0	43.6	43.2	37.0	28.8						
NFD 8023. RPM	8000	31.4	34.8	36.9	39.7	41.4	44.2	45.9	47.8	45.8	39.0	27.1						
(824. RAD/SEC)	10000	31.5	33.7	36.1	39.3	42.0	45.1	47.3	47.3	46.8	38.8	25.6						
NO. OF BLADES 15	12500	32.4	33.6	35.9	38.8	41.7	44.2	45.8	46.7	44.7	37.0	21.8						
FAN TIP SPEED	16000	24.6	27.2	29.9	33.1	37.3	39.7	41.5	41.7	39.2	28.9	11.1						
475. FT/SEC	20000	19.5	22.6	26.1	30.7	34.4	37.0	38.5	37.9	35.2	22.7	0.2						
	25000	13.1	15.6	19.8	24.1	27.7	29.7	30.1	28.6	23.4	9.8							
	31500		4.1	9.3	15.1	18.6	21.5	20.8	18.2	10.8								
	40000					1.5	3.6	2.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		56.8	59.4	62.1	63.8	64.9	65.6	66.0	65.6	64.2	62.0	54.9						
PNDB		64.8	67.0	69.8	71.0	73.1	75.0	76.0	75.9	74.6	72.0	61.8						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 9 HR. 14.1

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	53																		
RADIAL 17. FT.	60																		
(5. M)	100	74.8	75.6	73.4	72.2	69.9	68.9	69.6	68.4	72.2	76.1	79.4							107.7
VEHICLE R-55	125	74.3	69.4	72.9	69.9	71.6	69.7	70.4	72.9	74.2	76.1	78.4							107.1
CONFIG 9	160	74.3	68.6	68.9	69.2	69.4	69.4	71.6	72.4	74.7	77.6	79.4							107.2
LOC SCHENECTADY	200	74.0	67.9	68.9	69.2	70.4	72.4	73.4	75.1	76.5	79.1	80.1							108.5
DATE 12/5/74	250	74.3	71.1	72.6	72.4	73.1	73.9	75.1	74.9	76.2	77.8	78.8							108.9
RUN 27/5	315	75.0	73.9	73.9	74.4	74.6	75.4	75.6	75.4	76.2	77.8	78.6							109.6
TAPE	400	74.3	70.9	71.4	71.9	72.6	73.7	74.4	74.9	76.0	77.1	77.8							108.4
BAR 30.1 HG	500	73.3	70.8	71.9	72.4	73.6	75.2	76.8	76.9	77.7	78.3	77.4							109.5
(101478. N/M2)	630	75.1	73.9	75.4	75.7	77.7	78.7	80.4	80.4	80.2	80.3	77.9							112.5
TAMB 38. DEG F	800	77.9	76.9	77.4	77.9	78.9	80.9	81.8	81.6	81.7	81.3	77.9							114.1
(276. DEG K)	1000	78.4	75.1	75.6	76.9	78.9	80.7	81.6	81.9	82.5	81.8	77.1							113.9
TWET 35. DEG F	1250	75.2	71.7	73.1	75.5	77.7	79.5	81.3	82.1	82.2	82.1	78.9							113.4
(275. DEG K)	1600	74.2	70.4	72.4	74.8	77.7	80.2	81.6	81.6	82.5	82.1	78.6							113.4
HACT 4.53 GM/M3	2000	72.7	68.0	69.1	70.8	73.2	73.8	74.8	75.1	77.0	75.9	72.8							107.8
(.00453 KG/M3)	2500	73.4	68.5	69.4	71.9	74.3	75.9	75.6	75.6	77.7	75.4	72.8							108.6
NFA 6216. RPM	3150	73.4	69.0	70.4	71.9	74.5	78.0	79.5	79.3	82.0	79.7	76.3							111.6
(651. RAD/SEC)	4000	72.9	69.2	70.3	72.9	74.0	77.7	78.5	78.3	80.4	78.6	75.3							110.9
NFK 6346. RPM	5000	72.8	65.4	67.2	69.6	72.0	74.2	76.2	76.9	78.6	73.8	75.0							108.5
(664. RAD/SEC)	6300	72.7	63.7	65.0	67.2	69.6	71.9	72.7	73.3	74.6	71.5	77.5							106.3
NFB 8823. RPM	8000	73.1	65.2	66.5	69.0	71.3	75.1	76.5	78.0	79.8	75.2	79.8							109.8
(924. RAD/SEC)	10000	73.4	66.3	67.8	70.6	74.1	76.7	79.5	80.5	82.1	77.5	82.8							112.3
NO. OF BLADES 15	12500	74.1	68.2	69.7	72.1	75.3	79.3	79.8	82.6	84.1	80.4	84.8							114.3
FAN TIP SPEED	16000	74.4	66.0	67.6	70.3	74.0	77.0	79.4	81.6	83.1	78.2	85.0							113.8
543. FT/SEC	20000	74.4	67.3	69.5	72.5	75.8	76.9	81.6	83.7	86.0	81.5	85.7							116.3
	25000	74.4	67.8	69.3	72.9	75.8	78.9	81.1	82.2	84.2	79.9	84.9							115.9
	31500	73.7	64.2	70.3	75.0	77.8	80.8	82.9	84.2	84.8	81.2	81.2							117.7
	40000	71.9	66.3	68.5	71.2	75.0	78.4	80.8	81.8	83.1	79.3	74.8							116.7
	50000	73.5	65.8	68.6	67.9	71.0	73.8	75.8	75.9	76.6	74.4	73.3							113.7
	63000	73.7	65.6	69.7	66.9	68.1	68.8	71.0	69.5	70.2	69.2	72.8							112.8
	80000	73.1	66.4	69.7	66.7	67.2	67.6	68.1	67.0	66.7	66.9	66.9							110.3
OVERALL MEASURED																			
OVERALL CALCULATED		80.0	85.3	86.3	87.4	90.5	91.7	93.3	94.2	95.4	93.5	94.6							127.5
	PNDB	90.9	94.8	96.0	97.7	100.1	102.0	103.3	103.5	105.3	103.8	102.2							

1
10dB
NB

MODEL SOUND PRESSURE LEVELS (DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	69. (1.04)	71. (1.24)	91. (1.41)	91. (1.58)	111. (1.74)	111. (1.94)	129. (2.13)	133. (2.32)	149. (2.92)	150. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	53.1	52.8	51.3	50.5	48.3	47.2	47.4	45.3	47.0	49.5	49.3						
VEHICLE 0-55	125	54.5	46.8	50.7	48.1	50.0	47.8	48.1	49.8	49.7	49.4	48.1						
CONFIG 0	160	50.4	45.7	48.7	47.3	47.6	47.5	49.2	49.2	50.1	50.8	48.9						
LOC SCHENECTADY	200	50.1	44.9	48.6	47.2	48.6	50.4	50.9	51.8	51.7	52.1	49.4						
DATE 12/5/74	250	50.2	48.0	50.2	50.4	51.2	51.8	52.6	51.5	51.3	50.7	48.0						
RUN 27/5	315	50.9	50.7	51.4	52.3	52.7	53.3	53.2	51.9	51.2	50.6	47.5						
TAPE	400	50.0	47.6	48.8	49.7	50.6	51.4	51.6	51.3	50.9	49.7	48.9						
BAR 30.1 HG	500	48.9	47.3	49.2	50.2	51.5	52.9	53.6	53.2	52.5	50.8	49.0						
(9147P. N/M^2)	630	50.5	50.4	52.6	53.3	53.4	56.3	57.4	56.5	54.9	52.8	48.6						
TAMB 38. DEG F	800	53.2	53.3	54.5	55.5	56.5	58.4	58.8	57.7	56.2	53.4	49.7						
(276. DEG K)	1000	51.6	51.4	52.8	54.3	56.4	58.9	58.4	57.7	56.8	53.7	48.8						
TRET 35. DEG F	1250	50.2	47.7	50.0	52.8	54.1	56.7	58.0	57.8	58.3	53.7	48.0						
(275. DEG K)	1600	48.9	46.3	49.0	51.9	54.9	57.3	58.1	57.1	56.4	53.4	47.3						
WACT 4.53 GM/M3	2000	47.2	43.8	45.8	47.7	49.3	54.6	51.1	50.4	50.6	48.8	38.9						
(.0043 KG/M3)	2500	47.8	44.0	45.7	48.6	51.1	52.2	51.7	50.7	51.1	48.0	38.7						
NFA 6216. RPM	3150	45.4	44.2	46.3	48.3	51.1	54.4	55.3	54.1	55.0	49.8	41.4						
(651. RAD/SEC)	4000	44.3	43.9	45.8	48.9	52.2	53.7	53.8	52.5	52.8	48.0	39.3						
NFX 6346. RPM	5000	46.1	39.8	42.5	45.4	47.9	49.9	51.3	50.9	50.7	42.8	36.3						
(664. RAD/SEC)	6300	44.9	37.4	39.5	42.3	44.9	46.9	47.9	46.4	45.7	39.3	33.1						
NFD 8073. RPM	8000	43.9	37.6	38.9	43.0	45.5	49.8	49.7	49.8	49.3	41.0	38.4						
(824. RAD/SEC)	10000	42.3	36.9	38.6	43.0	46.8	49.1	51.1	50.5	49.6	40.8	37.6						
NO. OF BLADES 15	12500	40.2	36.4	39.1	42.4	45.9	49.5	49.0	50.0	48.5	39.8	33.8						
FAN TIP SPEED	16000	35.9	30.0	33.2	38.9	46.9	43.5	44.7	44.7	42.4	38.9	24.6						
543. FT/SEC	20000	29.8	25.9	30.1	34.2	38.0	40.6	41.8	41.2	38.7	25.7	13.8						
	25000	21.1	18.9	22.8	27.8	31.2	33.6	34.0	31.5	27.4	12.8							
	31500	7.8	7.8	13.2	18.8	23.3	25.4	25.8	21.8	14.1								
	40000				1.1	9.7	8.8	7.8	1.7									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.8	61.1	62.5	63.7	65.4	66.8	67.6	66.8	66.2	63.8	56.7						
PNLdB		72.8	69.9	71.9	74.0	76.5	78.4	79.1	78.2	78.3	74.8	67.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 9 HR. 14.1

NO FL SOUND PRESSURE LEVELS (SG. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	71.6	73.4	73.1	71.2	69.9	70.7	70.9	71.7	75.0	79.6	83.1							109.8
VEHICLE S-55	125	75.5	80.1	79.4	75.9	73.6	73.2	73.6	76.2	78.0	80.3	82.9							111.4
CONFIG 9	160	73.5	71.6	71.9	72.2	72.4	72.4	74.6	75.9	78.5	81.1	83.1							110.4
LOC SCHENECTADY	200	72.8	70.1	71.4	72.4	73.9	75.4	76.4	77.9	79.5	82.6	84.1							111.6
DATE 12/5/74	250	74.3	74.4	75.6	75.6	76.9	76.9	76.3	78.4	80.5	82.3	82.8							112.4
RUN 27A	315	74.3	76.4	74.9	77.4	77.9	78.4	78.3	78.6	79.7	81.8	82.6							112.8
TAPE	400	74.3	74.1	74.6	75.2	76.8	76.2	76.9	77.4	79.0	81.1	81.3							111.3
BAR 30.1 HG	500	73.3	73.1	73.9	75.2	76.9	77.7	79.1	79.7	80.7	81.6	80.9							112.2
(101474. N/M2)	630	75.6	76.1	77.6	76.2	80.4	81.7	82.9	82.7	82.7	82.8	80.9							115.8
TAMB 38. DEG F	800	76.1	78.6	79.4	79.9	81.6	82.7	83.6	83.4	83.0	83.3	81.4							115.9
(276. DEG K)	1000	77.1	77.5	78.1	79.7	81.4	82.7	84.1	84.4	84.5	83.8	79.8							116.2
THET 35. DEG F	1250	74.9	74.4	75.9	77.7	79.9	82.2	83.6	84.1	84.2	83.8	80.1							115.5
(275. DEG K)	1600	76.3	72.7	74.6	76.8	79.0	81.0	82.3	81.6	81.5	80.6	77.9							113.7
WACT 4.53 GM/M3	2000	72.4	71.5	72.9	74.6	76.5	77.9	79.1	78.9	79.7	78.8	76.4							111.2
(.00453 KG/M3)	2500	72.9	71.5	72.9	75.1	76.8	78.0	78.8	79.4	80.7	78.2	75.6							111.4
WFA 6977. RPM	3150	71.9	70.7	72.9	74.9	77.4	79.8	81.5	81.6	83.2	79.7	76.3							113.2
(730. RAD/SEC)	4000	72.9	72.9	74.8	76.9	80.0	82.7	82.5	83.0	83.9	80.9	77.6							114.8
WFK 7123. RPM	5000	71.6	68.7	71.2	73.9	76.2	78.2	79.4	81.7	79.9	78.8	76.0							111.8
(746. RAD/SEC)	6300	72.2	68.7	68.7	71.0	74.1	75.7	76.2	77.0	76.9	74.0	77.3							108.9
WFD 8623. RPM	8000	73.3	67.9	70.0	73.0	75.0	76.1	80.2	80.7	82.0	77.7	80.9							112.4
(924. RAD/SEC)	10000	73.1	68.8	71.1	74.6	77.4	80.2	82.5	83.7	84.9	80.2	83.1							115.0
NO. OF BLADES IS	12500	73.9	69.7	72.7	75.9	79.3	81.8	84.3	85.6	86.8	82.9	85.0							117.1
FAN TIP SPEED	16000	73.9	68.5	71.1	73.8	77.7	80.3	82.7	85.1	85.1	80.7	86.5							116.9
809. FT/SEC	20000	73.9	69.3	73.0	76.2	79.8	82.9	84.8	87.5	86.0	83.5	86.0							119.1
	25000	74.9	70.6	73.1	76.4	79.8	82.8	84.4	86.7	86.0	83.4	87.4							119.5
	31500	74.7	71.2	74.8	78.5	81.6	84.1	86.4	87.7	87.8	82.5	83.7							120.4
	40000	73.2	68.8	72.7	75.7	78.7	81.9	84.3	85.6	85.6	81.8	81.7							117.5
	50000	73.7	66.3	70.3	71.1	74.2	76.6	79.5	79.9	80.3	77.8	78.5							113.9
	63000	73.9	65.8	70.2	68.9	69.8	70.5	73.0	72.5	72.7	70.5	75.8							110.9
	80000	73.6	69.4	70.0	66.7	67.5	67.6	69.1	68.2	67.4	67.4	67.9							107.6
OVERALL MEASURED																			121.6
OVERALL CALCULATED		89.0	86.1	89.2	90.5	92.6	94.6	96.2	97.3	97.9	95.9	97.0							
PNDB		98.7	98.0	99.5	101.2	103.5	105.5	106.2	106.7	107.5	105.7	106.3							

MODEL SOUND PRESSURE LEVELS (59. LEG. F, 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ	53. (0.92)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	129. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																
	63																
SIDELINE 200. FT.	ALL																
(60.96 M)	100	48.1	50.7	51.1	49.5	48.3	48.9	48.7	48.6	50.5	53.0	53.0					
VEHICLE 8-55	125	52.0	57.3	57.2	54.1	52.8	51.3	51.3	53.0	53.4	53.7	52.8					
COMPIC 9	160	49.7	48.7	49.7	50.3	50.4	50.5	52.2	52.7	53.8	54.3	52.6					
LOC SCHENECTADY	200	48.6	47.1	49.1	50.5	52.1	53.4	53.9	54.8	54.7	55.0	53.4					
DATE 12/9/74	250	50.2	51.3	53.2	53.6	54.3	54.8	55.8	55.9	55.8	55.2	52.0					
RUN 27/5	315	52.1	53.2	54.4	55.3	55.9	56.3	55.7	55.1	54.7	54.8	51.5					
TAPE	400	50.0	50.9	52.1	53.0	53.5	53.9	54.1	53.8	53.9	53.7	50.0					
BAR 30.1 IN	500	48.9	49.4	51.2	52.9	53.7	55.4	56.3	55.9	55.5	54.0	49.3					
(101478. N/M2)	630	51.1	52.7	54.9	55.8	56.2	59.3	59.9	58.8	57.4	55.1	49.0					
TAMB 38. DEG F	800	53.4	55.0	56.5	57.5	58.3	60.2	60.5	59.4	57.4	55.4	49.2					
(276. DEG K)	1000	52.3	53.9	55.1	57.1	58.9	60.0	60.9	60.2	58.8	55.4	47.4					
THET 35. DEG F	1250	49.9	50.5	52.7	55.0	57.3	59.4	60.3	59.8	58.3	55.2	47.3					
(275. DEG K)	1600	49.7	48.6	51.3	53.9	56.2	58.8	58.8	57.1	55.4	51.9	44.6					
RACT 4.51 GM/M3	2000	47.0	47.1	49.3	51.5	53.5	54.4	55.4	54.2	53.4	49.8	42.8					
(.00453 KG/M3)	2500	47.3	47.8	49.2	51.8	53.6	54.7	54.9	54.4	54.1	48.8	41.4					
NFA 6977. RPM	3150	45.9	45.9	48.8	51.3	54.4	56.2	57.3	56.3	56.2	49.8	41.4					
(730. RAD/SEC)	4000	46.3	47.7	50.3	52.9	56.2	58.7	57.8	57.3	56.3	50.3	41.8					
NFK 7123. RPM	5000	44.7	43.1	46.5	49.6	52.2	53.9	54.5	55.7	52.0	45.0	39.3					
(746. RAD/SEC)	6300	44.4	40.4	43.3	46.1	49.1	50.7	50.5	50.1	48.0	41.8	38.8					
NFD 8823. RPM	8000	43.2	40.3	43.4	47.0	49.2	52.0	53.4	52.6	51.6	43.5	39.8					
(924. RAD/SEC)	10000	42.0	39.4	42.9	47.0	50.0	52.4	54.1	53.8	52.3	43.4	37.9					
NO. OF BLADES 15	12500	40.0	37.9	42.1	46.1	48.8	52.0	53.5	53.0	51.2	42.1	34.1					
FAN TIP SPEED	16000	35.4	32.5	36.7	40.4	44.8	48.4	48.0	48.2	44.4	33.4	28.1					
869. FT/SEC	20000	29.3	27.9	33.4	38.8	42.0	43.8	45.8	44.9	40.7	27.7	18.2					
	25000	21.8	21.8	28.5	31.3	38.2	37.4	37.3	38.0	31.2	15.5						
	31500	8.8	10.8	17.7	24.3	27.8	28.7	28.5	28.1	17.1							
	40000				5.8	8.4	11.5	10.5	9.4								
	50000																
	63000																
	80000																
OVERALL CALCULATED		62.7	64.8	65.4	66.8	68.2	69.5	70.1	69.5	68.5	66.2	62.2					
	PNDB	72.5	73.8	75.3	77.5	78.9	81.8	81.8	81.3	80.3	78.8	69.3					

10 dB

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM — PROC. DATE = MONTH 12 DAY 9 HR. 14.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	74.0	71.4	72.6	72.6	72.9	73.9	74.1	73.9	70.0	63.1	66.9							112.8
VEHICLE P-55	125	74.8	77.6	77.1	75.4	74.1	74.7	74.4	79.9	80.7	83.3	86.4							113.7
CONFIG 9	160	75.8	74.9	75.1	75.2	74.6	76.2	78.1	78.9	81.5	84.6	86.6							113.8
LOC SCHENECTADY	200	75.8	72.9	73.9	74.7	74.4	78.8	79.4	81.1	82.7	85.6	87.8							114.8
DATE 12/5/74	250	77.0	77.6	78.8	79.1	78.9	81.4	82.1	83.9	84.2	86.3	87.3							118.5
RUN 2717	315	78.5	79.4	79.9	79.9	80.1	81.2	81.6	81.9	82.7	85.1	88.3							115.5
TAPE	400	77.6	77.1	77.1	76.2	78.9	79.9	80.4	81.4	82.2	84.3	85.6							114.7
BAR 30.1 HG	500	75.6	76.1	76.4	77.7	78.1	79.9	81.6	82.2	83.0	84.3	84.1							114.7
(81478. N/M2)	630	77.9	78.4	79.9	80.4	82.2	83.4	84.9	85.2	85.2	85.3	84.1							117.2
TAMB 39. DEG F	800	82.4	80.9	81.6	82.4	83.6	85.7	85.8	86.2	85.7	85.3	83.9							118.5
(277. DEG K)	1000	80.1	79.9	81.1	81.7	83.6	85.2	86.3	86.6	86.7	85.3	82.9							118.5
THET 34. DEG F	1250	79.2	76.9	78.1	80.3	81.9	84.2	86.1	85.6	86.5	85.4	82.4							117.7
(274. DEG K)	1600	77.7	74.9	78.4	78.6	80.2	82.6	84.1	83.2	83.2	82.1	80.6							115.3
RHOT 3.73 GM/M3	2000	80.2	75.7	76.9	78.1	79.8	81.0	82.8	84.4	85.0	82.7	79.9							115.6
(.00373 KG/M3)	2500	75.4	74.2	76.4	78.1	80.3	81.8	81.8	82.4	83.8	81.2	79.1							114.5
NPA 7756. RPM	3150	75.0	73.8	75.6	78.2	80.1	82.5	83.3	83.1	85.3	81.4	78.6							119.4
(812. RAD/SEC)	4000	78.9	76.5	78.4	81.2	84.0	86.8	86.5	84.6	87.2	83.4	80.3							118.3
NPR 7908. RPM	5000	79.9	72.5	74.8	78.9	79.5	81.0	82.0	83.2	82.7	79.4	78.5							114.2
(828. RAD/SEC)	6300	79.2	78.6	72.5	75.3	77.7	79.7	79.2	80.3	80.7	77.1	78.6							112.3
NFD 8693. RPM	8000	72.2	71.5	72.9	76.1	78.1	80.9	83.8	83.3	84.1	79.1	81.0							114.8
(924. RAD/SEC)	10000	73.0	72.4	74.9	77.9	81.2	83.3	85.8	86.8	87.2	81.6	83.4							117.6
NO. OF BLADES 16	12500	74.9	73.1	76.6	79.5	83.2	84.7	87.7	89.5	89.7	84.5	85.9							120.1
FAN TIP SPEED	16000	73.3	72.1	74.7	77.9	81.4	83.4	86.0	88.5	88.5	82.8	87.6							115.4
677. FT/SEC	20000	73.5	72.9	75.6	79.8	83.1	85.5	88.1	90.8	91.0	85.0	89.6							122.0
	25000	73.4	73.3	76.6	80.1	83.8	85.6	87.9	90.7	91.2	85.4	89.6							122.7
	31500	73.5	74.3	77.2	81.8	84.7	87.2	89.0	90.8	90.7	84.8	87.6							123.6
	40000	74.3	72.2	75.1	79.2	82.2	84.8	87.7	88.5	88.5	83.7	84.9							123.8
	50000	76.4	69.3	72.0	73.8	76.7	79.8	82.8	82.8	82.6	79.7	81.5							119.4
	63000	74.1	65.8	70.1	68.6	76.9	72.8	75.8	75.1	74.8	72.1	75.9							116.8
	80000	73.1	67.7	69.3	66.5	67.3	67.7	69.2	68.6	68.8	67.3	71.9							115.8
OVERALL MEASURED																			
OVERALL CALCULATED		91.3	90.3	91.6	93.4	95.5	97.4	99.2	100.3	100.8	98.3	99.7							132.8
	PNDB	102.0	101.0	102.5	104.6	106.8	108.8	109.5	109.8	110.5	108.2	107.1							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	50.4	48.7	50.6	50.7	51.3	52.2	51.9	50.8	53.5	50.5	50.8						
125	53.0	54.6	55.0	53.6	54.5	54.4	56.1	56.8	56.2	56.7	56.1						
160	51.9	52.0	52.9	53.3	53.9	54.3	55.7	55.7	56.8	48.0	56.1						
200	51.9	49.9	51.6	52.7	54.6	54.7	56.9	57.8	58.0	48.6	57.2						
250	53.0	54.5	56.2	57.1	58.0	59.3	59.8	60.5	59.3	49.2	56.5						
315	54.4	56.2	57.4	47.8	58.2	59.0	59.0	58.4	57.7	47.8	55.2						
400	53.3	53.9	54.6	56.0	56.9	56.7	57.6	57.8	57.1	46.9	54.3						
500	51.2	52.8	53.7	55.4	56.0	57.6	59.8	58.4	57.7	46.8	52.5						
630	53.3	54.9	57.1	56.1	59.9	61.0	61.9	61.3	59.9	47.6	52.3						
800	57.7	57.3	58.7	60.0	61.3	63.2	62.8	62.2	60.2	47.4	51.7						
1000	55.3	56.1	59.1	59.1	61.2	62.6	63.2	62.5	61.0	47.2	50.4						
1250	54.2	53.0	55.0	57.5	59.3	61.4	62.8	61.3	60.6	47.0	49.6						
1600	52.5	50.8	53.0	55.6	57.5	59.8	60.6	58.7	57.1	53.4	47.4						
2000	54.7	51.4	53.4	55.0	56.9	57.9	59.1	59.7	58.6	53.6	46.1						
2500	49.8	49.7	52.7	54.9	57.2	57.7	57.9	57.5	57.1	51.8	44.9						
3150	48.9	46.9	51.6	54.6	56.7	58.9	59.1	57.9	58.3	51.6	43.7						
4000	49.4	51.2	53.9	57.2	60.2	62.0	61.9	60.8	59.6	52.8	44.3						
5000	46.0	46.9	50.1	52.7	55.5	56.7	57.1	57.2	56.8	48.3	41.9						
6300	44.5	44.2	47.1	50.4	52.9	54.8	53.6	53.5	51.8	44.8	41.2						
8000	43.0	43.9	46.3	50.1	52.3	54.8	57.0	55.2	53.7	44.9	39.7						
10000	41.9	43.0	46.7	50.4	53.9	55.7	57.4	56.6	54.7	44.7	38.2						
12500	40.1	41.3	46.0	49.7	53.6	54.9	56.9	56.9	54.1	43.7	35.0						
16000	34.8	36.1	40.3	44.5	48.5	49.9	51.4	51.6	47.8	35.5	27.2						
20000	28.8	31.4	36.4	41.5	44.2	47.1	48.3	48.2	43.7	29.2	17.8						
25000	20.0	24.0	30.0	35.0	38.4	40.4	40.8	40.0	36.4	17.8							
31500	7.8	13.7	20.1	26.7	30.1	31.8	31.2	27.5	20.0								
40000			2.3	9.0	12.8	14.4	14.0	8.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.7	65.9	67.6	69.1	70.8	72.2	72.9	72.3	71.3	69.0	65.8						
PNDB	76.2	76.1	78.4	80.9	83.2	84.8	85.1	84.4	83.3	78.4	72.3						

SIDELINE 200. FT. (60.96 M)
VEHICLE A-55
CONFIG 9
LOC SCHENECTADY
DATE 12/5/74
RUN 27/7
TAPE
BAR 30.1 IN (101478. N/M**2)
TAMB 59. DEG F (277. DEG K)
THET 34. DEG F (274. DEG K)
WACT 3.73 LB/M3 (1.0033 KG/M**3)
NFA 7754. RPM (812. RAD/SEC)
NFA 7998. RPM (838. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 677. FT/SEC

PAGE 1 FULL SCALE DATA

MODEL SOUND PRESSURE LEVELS (DB, REF. TO 2E-5 NEWTON/M**2, RMS)

	FREQ. (HZ)	50.	63.	71.	81.	91.	101.	114.	128.	143.	160.	0.	0.	0.	2.	0.	0.	PWL
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. PT	100	47.5	48.5	54.0	47.1	47.2	47.5	47.9	47.7	48.7	47.7	49.4						84.7
VEHICLE RPSS	125	47.0	48.3	58.5	45.6	45.2	47.3	47.3	47.2	45.9	47.5	48.8						84.8
CERTIF. 8M	160	47.7	48.1	61.9	48.8	47.4	47.5	48.5	48.9	49.7	51.2	54.8						87.0
LOC SCHEDULED	200	49.7	53.3	63.5	54.7	54.7	55.3	54.8	55.9	54.2	54.2	53.4						92.2
DATE 12/6/74	250	45.2	45.8	61.3	43.3	44.2	44.2	44.7	45.1	44.4	44.0	47.0						80.1
RUN 30/5	315	45.2	45.8	50.3	46.1	44.7	44.8	44.7	44.9	44.7	45.5	47.3						80.2
TAPE	400	45.2	46.1	63.0	45.1	43.9	44.3	44.5	45.7	45.2	46.5	48.8						87.8
BAR 30.1 HG	500	44.3	45.9	54.0	44.1	43.5	44.8	44.0	44.2	43.7	45.3	49.1						81.1
(1564. MB)	630	45.3	46.4	49.8	46.4	44.5	45.3	46.7	46.2	45.9	46.2	47.3						79.3
TAMB 43. DEG F	800	51.8	51.4	53.3	49.4	50.2	50.1	52.0	50.7	50.4	50.7	51.8						89.2
(279. DEG K)	1000	45.8	46.6	48.9	42.6	44.5	45.3	45.5	45.6	44.4	44.7	46.8						79.8
TACT 41. DEG F	1250	44.6	45.6	46.3	43.9	43.3	43.6	44.2	43.9	43.7	43.3	44.3						78.3
(278. DEG K)	1600	44.6	45.1	45.8	44.0	42.8	43.3	43.7	44.1	43.9	43.6	44.1						78.2
HACT 6.20 GM/KG	2000	44.6	46.4	46.5	44.7	43.5	44.1	44.5	44.6	43.2	43.8	47.6						78.8
(6.20 GM/KG)	2500	45.6	46.9	47.2	45.5	44.3	44.6	45.7	45.1	44.2	44.5	45.8						79.7
NFA 5. RPM	3150	45.1	46.9	47.4	45.8	44.6	45.3	45.9	45.6	44.4	44.5	46.0						79.9
(1. RAD/SEC)	4000	46.7	48.4	48.4	46.5	45.8	47.5	46.6	47.2	45.1	46.2	46.7						81.1
NFK 5. RPM	5000	47.9	49.3	49.6	47.7	47.3	47.2	47.5	48.2	46.8	47.2	47.9						84.2
(1. RAD/SEC)	6300	49.2	50.9	51.5	49.4	48.3	49.7	48.7	49.7	47.8	48.5	49.8						83.7
NFD 8823. RPM	8000	49.9	51.8	51.8	50.3	49.3	49.6	50.5	49.9	49.1	49.3	50.8						84.7
(924. RAD/SEC)	10000	51.5	52.6	52.4	51.4	50.5	50.7	51.5	51.4	49.7	50.5	51.7						86.6
NO. OF BLADES 15	12500	53.6	54.5	53.8	53.1	52.7	52.3	52.3	52.2	51.4	52.1	52.9						87.8
FAN TIP SPEED	16000	54.1	55.2	54.7	54.5	53.5	53.4	52.9	53.2	52.6	53.5	53.5						88.9
0. FT/SEC	20000	55.1	56.0	55.9	55.4	54.4	54.0	53.5	54.3	53.5	54.4	54.7						90.2
	25000	56.1	57.6	56.5	57.2	55.9	54.1	55.1	54.3	53.3	53.5	54.7						91.0
	31500	55.6	56.9	56.7	56.4	55.4	54.9	54.5	54.2	53.3	53.5	54.5						92.4
	40000	56.0	56.4	57.6	56.5	54.7	55.0	55.0	53.6	53.3	54.0	53.8						93.0
	50000	58.1	57.3	54.9	57.7	56.4	55.3	56.5	55.5	54.8	55.1	54.8						97.6
	63000	55.6	56.1	59.3	57.5	56.3	55.5	57.0	55.6	54.7	55.1	54.4						99.8
	80000	57.5	53.3	57.0	54.5	53.3	53.4	54.2	52.9	52.3	53.1	52.3						101.2
OVERALL MEASURED																		
OVERALL CALCULATED		67.1	67.2	71.6	66.9	65.9	65.6	66.2	65.8	65.4	66.3	67.8						166.2
PAGE		72.2	73.6	77.3	72.2	71.4	71.6	72.1	72.5	71.3	72.1	73.6						

PAGE 3 FULL SCALE DATA PRINTOUT (Original)

FULL SCALE - NORTH 10 MAY 10 PM, 3.5

OVERALL SOUND PRESSURE LEVELS (DB, RE 0.0002 MICROBAR WEIGHTED, NOY, TAY)

ANGLES FROM INLET TO MEASURED (DEG FROM AXIS)

	FREQ (CPS)	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
		80															
		90															
SIDELINE 230. FT.		100															
(87.46 DB)		100	29.3	26.1	35.7	27.1	28.5	25.0	25.0	24.7	22.3	21.2	19.5				
VEHICLE RPM		105	23.2	25.3	36.4	27.0	23.5	25.9	24.0	24.0	21.4	20.9	18.6				
CONFIG 9R		100	25.9	25.2	33.5	27.3	25.7	24.6	24.1	25.7	25.0	24.1	22.8				
LOC SCHEDTARY		200	25.7	30.4	41.2	30.4	33.1	27.3	33.5	32.6	33.4	31.9	32.9				
DATE 17/F/74		250	21.1	25.1	31.7	21.1	22.3	22.2	22.9	21.7	19.4	18.9	18.2				
RUN 30/5		315	20.8	23.7	27.3	23.0	22.7	22.5	22.1	21.4	19.7	18.2	18.2				
TAPE		400	21.7	22.5	40.1	27.5	21.9	22.1	21.4	22.0	20.3	19.1	19.2				
GAR 32.1 DB		500	19.3	22.5	31.3	21.3	21.3	22.5	21.2	21.4	18.5	17.4	16.5				
(81.54. DB/HZ)		630	20.1	22.3	29.3	24.0	22.2	22.0	22.0	22.3	19.0	18.5	15.5				
TAMB 43. DEG F		800	27.1	27.7	33.1	29.3	27.9	27.5	28.3	28.7	24.3	22.3	19.7				
(279. DB/HZ)		1000	21.0	22.3	25.9	22.5	22.3	22.7	22.3	21.5	18.7	18.5	14.1				
TEET 41. DEG F		1250	19.6	21.7	22.3	21.3	22.5	21.9	20.9	19.8	18.8	14.8	11.5				
(276. DB/HZ)		1600	19.4	21.3	22.4	21.1	22.3	21.8	20.2	19.6	18.2	14.3	10.8				
HACT 6.49 G/M3		2000	17.4	22.1	23.3	21.3	22.5	21.6	21.9	19.3	16.2	14.7	10.4				
(-00.42 DB/HZ)		2500	17.3	22.4	23.5	22.3	21.2	21.3	21.4	20.2	17.8	15.2	11.6				
WFA 5. RPM		3150	19.5	22.1	23.4	22.3	21.2	21.7	21.7	20.3	17.4	14.7	11.1				
(1. FAT/SEC)		4000	20.2	23.1	23.3	22.8	22.3	22.5	21.9	21.5	17.8	15.5	10.7				
WFK 5. RPM		5000	21.1	23.3	24.9	23.5	22.3	23.3	22.4	22.1	18.9	16.1	11.3				
(1. FAT/SEC)		6300	21.5	24.3	25.6	24.4	23.6	23.7	23.1	22.4	18.6	16.3	11.0				
WFD 8423. RPM		8000	20.7	24.2	25.2	24.3	23.4	23.5	23.7	21.7	19.7	15.1	9.5				
(924. FAT/SEC)		10000	20.6	23.5	24.5	23.8	23.5	23.1	23.1	21.4	17.2	13.5	8.5				
NO. OF BLADES 15		12500	19.7	22.7	23.3	23.4	23.2	22.4	21.5	19.8	15.8	11.3	7.9				
FAN TIP SPEED		16000	15.5	19.2	20.4	21.1	20.5	19.8	18.2	16.3	12.6	8.6					
0. FT/SEC		20000	10.4	14.5	15.5	17.2	16.5	15.7	13.7	11.7	8.2						
		25000	2.3	8.3	9.9	12.0	10.3	8.4	8.0	3.6							
		31500				1.2	0.8										
		40000															
		50000															
		63000															
		80000															
OVERALL CALCULATED			35.4	37.9	47.5	37.8	38.2	37.3	36.8	37.2	36.2	35.5	34.5				
PNDB			41.8	45.4	52.3	45.3	44.4	44.6	44.5	43.4	39.1	39.8	29.4				

ORIGINAL PAGE IS
OF POOR QUALITY

FIGE 1 FULL SCALE [illegible]

ORIGINAL PAGE IS
OF POOR QUALITY.

PAGE 1 FULL SCALE

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PAGE 1

BASIC (7. FT.													
(50. FT	100	74.5	76.4	78.9	77.7	80.0	77.2	77.4	77.7	73.1	74.3	78.1	1679
VEHICLE	105	73.5	75.6	78.4	80.3	77.9	80.8	77.8	77.4	74.5	74.9	78.9	1690
ENGINE	110	77.7	79.6	81.7	83.7	81.0	83.8	81.4	81.1	78.3	78.3	78.3	1760
LOC SCHEDULE	210	77.5	77.4	79.1	78.7	78.5	77.6	79.4	79.5	76.5	76.5	81.4	1680
DATE 12/07/74	250	76.5	76.9	78.6	78.9	78.1	78.1	78.3	78.4	75.8	77.6	79.3	1690
BUS 3570	315	76.7	77.6	79.4	79.8	78.5	78.6	78.4	78.6	75.8	76.3	79.7	1697
TAPE	650	76.6	77.4	79.1	77.9	77.1	78.7	78.1	78.8	76.7	77.8	77.9	1681
BAR 30.1 IN	900	69.1	70.3	71.3	72.4	73.1	74.9	74.6	77.2	77.5	78.3	77.1	1693
(1019.4 MB)	650	72.9	72.9	74.0	75.7	77.4	79.2	81.1	81.9	81.7	80.9	79.4	1746
TAMB 44. DEG F	400	76.8	78.3	77.9	77.4	79.9	81.6	82.1	82.1	81.7	81.5	79.9	1760
(6.7 DEG C)	1550	74.4	75.4	75.1	77.7	77.3	78.7	78.6	78.6	78.7	80.1	77.1	1696
T-DEW 42. DEG F	1550	71.7	71.7	73.6	75.2	75.4	76.7	77.6	77.4	76.7	80.6	79.7	1750
(5.6 DEG C)	1550	72.7	72.9	74.4	76.4	76.6	78.7	80.0	82.1	82.3	83.6	79.6	1750
HUMI 94.3 PCT	2550	93.4	92.4	93.4	91.1	93.7	94.4	95.3	96.8	96.7	96.7	96.4	1697
(0.9444 G/M3)	2550	89.7	88.5	89.9	87.1	89.7	91.9	91.6	91.9	92.2	92.5	92.6	1698
WFA 0203. WPM	2150	69.1	69.2	69.8	70.3	70.5	71.7	73.0	73.3	73.7	74.8	73.3	1734
(656. M/SEC)	4250	67.6	68.2	70.5	69.3	73.7	77.7	79.9	81.1	79.1	79.2	74.2	1812
WFX 633. WPM	5250	64.6	65.3	67.2	67.3	71.9	76.4	77.6	79.3	78.1	77.3	71.9	1694
(607. M/SEC)	6350	61.8	63.7	65.4	67.4	69.6	71.9	73.9	76.6	76.9	73.8	69.2	1650
WFS 0623. WPM	2830	64.5	65.1	66.4	69.7	71.5	74.3	76.6	79.2	79.7	79.9	71.9	1690
(924. M/SEC)	11450	74.0	75.7	77.3	79.2	82.5	84.6	86.4	87.0	87.5	87.2	82.2	1911
NO. OF BLADES 18	1950	69.5	69.4	69.1	72.2	74.7	77.7	80.5	82.9	84.7	85.0	79.5	1833
TAC TIP SPEED	16750	64.3	64.6	66.9	68.7	73.4	75.9	78.1	81.5	83.2	79.5	73.9	1760
549. FT/SEC	25550	68.8	69.4	71.9	73.8	78.7	81.4	83.8	87.6	89.6	85.8	79.9	1907
	25550	67.3	68.5	69.6	71.1	75.3	77.4	80.1	81.9	83.3	79.3	77.4	1844
	31550	69.4	69.6	70.6	73.3	76.5	79.5	81.5	83.8	84.5	80.4	78.4	1870
	42550	66.2	65.3	67.5	71.2	74.8	77.3	80.2	81.3	82.5	76.2	69.8	1810
	52650	63.3	65.7	67.4	68.4	70.5	72.6	75.6	75.6	75.1	69.9	63.3	1730
	63250	72.4	68.5	69.5	67.2	67.9	67.9	72.7	69.7	71.1	63.3	57.8	1727
	63250	72.9	69.4	71.7	68.3	68.6	69.4	76.1	68.4	67.3	60.9	60.9	1750
OVERALL MEASURED													
OVERALL CALCULATED		65.5	63.4	66.5	68.2	38.9	96.2	96.1	64.0	95.6	94.5	91.3	1827
		63.8	64.9	66.2	69.9	159.7	163.3	164.4	164.8	166.7	164.9	161.8	

FULL SCALE DATA

MODEL SOUND PRESSURE LEVELS (50. DEG. TO 70 PERCENT REL. HUM. DAY)

FREQ (CPS)	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000	31500	40000	50000	63000	80000	OVERALL CALCULATED	PNDB
SIDELINE 500. FT.																																			
(152.96 M)	100	47.2	53.7	52.0	48.3	46.3	47.4	50.2	47.6	47.5	46.8	46.3																							
VEHICLE S-55	125	45.3	46.3	43.2	47.1	49.2	46.1	48.6	53.3	48.7	46.2	46.4																							
CONFIG 9R	160	43.9	45.7	46.2	46.4	47.1	47.0	48.0	48.7	51.1	50.5	48.6																							
LOC SCHENECTADY	200	47.1	44.4	45.5	47.5	49.1	50.7	50.9	50.1	51.7	50.8	51.2																							
DATE 12/6/74	250	46.5	47.3	51.2	50.9	51.2	51.1	52.3	52.6	51.6	50.7	47.3																							
RUN 30/3	315	48.6	50.5	51.3	52.3	52.7	52.3	53.0	51.9	51.5	51.1	47.4																							
TAPE	400	49.3	49.1	47.9	51.9	52.1	51.7	51.4	51.0	51.0	50.2	46.3																							
BAR 30.01 IN	500	44.7	47.5	47.2	50.9	51.5	52.6	53.7	53.4	52.2	51.9	46.9																							
(1015. MB)	630	43.3	49.4	52.1	53.3	55.2	55.6	56.2	57.0	55.4	52.9	48.5																							
TAMB 46. DEG F	800	51.9	53.3	53.9	56.9	57.5	58.6	58.9	58.2	58.2	53.6	49.5																							
(291. DEG K)	1000	49.6	51.6	52.1	55.1	56.7	57.3	58.4	57.7	56.8	55.9	48.4																							
TDET 42. DEG F	1250	46.7	47.7	50.3	52.3	55.3	57.0	57.3	56.1	54.8	57.2	47.0																							
(279. DEG K)	1600	45.4	48.3	52.3	53.1	57.3	62.6	63.1	57.6	56.1	57.2	46.3																							
HACT 5.65 GM/M3	2000	41.2	43.1	45.1	48.9	51.3	58.9	51.6	58.9	58.4	47.8	36.1																							
(0.0065 KG/M3)	2500	42.2	43.7	45.9	48.5	50.6	51.7	52.2	51.7	51.6	47.5	38.4																							
NFA 6293. RPM	3150	41.1	43.6	45.9	49.3	51.4	54.1	55.6	56.1	56.1	50.8	40.4																							
(659. RAD/SEC)	4000	41.9	43.9	49.1	49.4	51.9	53.7	54.1	51.7	53.6	48.5	39.2																							
NFK 3773. RPM	5000	37.9	40.3	42.5	47.1	47.9	51.1	52.7	51.9	50.8	44.9	36.3																							
(867. RAD/SEC)	6300	35.6	37.2	40.0	42.5	44.8	45.5	47.9	47.1	46.9	39.7	29.8																							
NFD 8823. RPM	8000	33.3	37.5	39.8	43.7	45.5	48.2	49.8	51.0	49.3	41.7	30.3																							
(924. RAD/SEC)	10000	34.9	36.3	39.9	43.7	46.8	48.7	51.0	51.0	50.6	41.3	27.0																							
NO. OF BLADES 18	12500	34.6	35.5	38.3	42.2	45.2	47.6	49.7	49.9	48.4	40.0	24.8																							
FAN TIP SPEED	16000	29.7	28.6	32.6	36.2	40.2	42.4	44.4	44.6	42.4	31.6	19.5																							
549. FT/SEC	20000	24.2	24.3	26.5	33.6	36.8	39.4	41.4	41.0	37.3	25.1	9.1																							
	25000	16.3	17.3	22.0	27.0	30.1	32.1	33.0	31.2	26.4	12.0																							
	31500	0.3	6.0	12.4	18.8	22.2	24.1	23.7	21.1	13.8																									
	40000				1.1	8.1	8.9	8.4	1.1																											
	50000																																		
	63000																																		
	80000																																		
OVERALL CALCULATED		50.2	51.3	62.4	64.6	66.2	66.2	65.1	67.7	67.1	65.0	59.0																							
PNDB		67.5	69.8	72.3	75.6	77.5	79.9	80.7	79.5	79.1	75.6	68.7																							

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PAGE 1 FULL SCALE DATA [illegible] [illegible]

[illegible] MODEL SOUND PRESSURE LEVELS 150. DEG. FS 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (0° = AXIAL)

	FREQ.	53.	63.	74.	91.	91.	111.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	PWL
	30	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	([illegible])	)
	63																		
RADIAL 17. FT.	80																		
(5. FT)	100	54.3	70.7	71.4	78.2	72.1	72.7	71.1	71.5	75.6	65.1	63.9							110.1
VEHICLE RPS	125	73.3	78.1	73.6	75.7	73.4	73.2	74.6	76.9	77.7	69.3	62.6							111.4
CONFIG 3N	160	77.8	71.9	71.6	72.4	72.1	72.6	74.2	75.6	74.7	61.3	62.6							110.2
LOC SCHEDULE	200	69.8	63.9	71.1	71.7	77.6	78.4	76.8	77.9	79.7	02.8	64.1							111.6
DATE 12/07/74	250	79.3	74.4	76.1	77.1	79.6	78.6	78.8	78.6	80.2	02.3	63.3							112.8
RUN 30/9	315	75.6	76.4	75.9	77.7	77.8	77.9	78.6	78.6	79.7	62.3	62.8							112.9
TAPE	400	73.6	74.3	72.6	74.7	75.8	75.9	77.8	77.9	79.7	61.1	61.6							111.5
BAR 30.1 HG	500	72.6	73.3	74.1	74.7	75.6	76.6	76.1	76.7	81.7	61.6	21.1							112.1
(01564. N/M2)	630	75.1	75.6	77.6	77.7	79.9	81.2	82.9	82.7	82.7	62.8	60.9							114.8
TAMB 46. DEG F	800	78.6	75.4	79.1	79.9	81.4	83.2	84.1	83.6	84.8	63.3	61.4							116.3
(281. DEG K)	1000	76.4	77.8	79.4	80.2	82.1	82.7	84.1	85.1	85.1	64.6	62.6							110.6
TAET 42. DEG F	1250	71.2	74.2	76.4	78.7	81.4	82.5	84.6	85.1	86.4	66.4	61.6							110.8
(279. DEG K)	1600	72.7	72.7	75.1	77.6	79.5	82.2	83.9	81.9	83.7	83.5	78.7							114.7
MACT 5.65 SM/HR	2000	71.2	71.2	72.9	74.1	76.2	77.5	78.1	78.9	80.7	79.6	76.6							111.2
(0.00565 M/HR)	2500	70.4	71.0	72.6	73.7	75.7	76.6	77.6	79.3	81.2	78.5	75.6							111.6
NFA 7004. RPM	3150	69.9	71.9	72.8	74.9	77.5	80.6	81.3	82.1	84.2	80.4	76.3							113.6
(742. RAD/SEC)	4000	73.3	72.7	74.5	77.3	79.7	81.9	82.9	83.5	84.6	81.3	77.0							115.9
NFK 7174. RPM	5000	67.5	68.4	71.2	77.0	78.7	78.4	80.1	82.6	81.1	77.3	73.4							114.2
(751. RAD/SEC)	6300	65.4	67.4	69.9	76.9	78.3	75.1	75.9	77.7	77.6	74.5	71.9							110.5
NFE 8823. RPM	8000	66.5	68.4	69.9	72.4	74.7	77.0	80.1	81.7	82.7	77.2	73.6							112.2
(924. RAD/SEC)	10000	67.0	68.9	71.2	74.2	76.5	79.6	82.1	83.6	85.3	79.9	75.5							114.0
NO. OF BLADES 15	12500	69.0	68.9	72.3	75.3	77.9	80.7	83.7	86.0	87.0	82.5	77.2							116.5
FAN TIP SPEED	16000	67.5	67.6	70.2	72.9	74.1	78.2	82.1	85.0	85.5	80.6	76.8							113.4
818. FT/SEC	20000	68.3	68.2	71.9	74.4	77.7	80.8	84.0	86.8	87.1	82.3	78.4							117.5
	25000	68.6	68.3	72.3	75.4	77.9	80.9	83.6	86.2	87.0	82.1	77.8							117.6
	31500	68.7	68.6	73.6	77.2	80.3	82.5	85.0	86.3	87.0	82.1	78.4							119.3
	40000	69.2	67.6	72.3	74.7	77.4	80.8	83.9	84.5	85.5	81.4	72.4							118.3
	50000	69.5	68.7	70.2	72.7	73.5	78.1	81.0	79.2	80.3	77.1	67.9							118.6
	63000	71.4	65.8	70.3	67.3	69.4	71.0	74.0	72.7	73.1	71.4	69.4							116.1
	80000	73.1	70.7	71.7	68.3	69.1	69.4	71.1	66.4	68.6	68.7	68.9							118.9
OVERALL MEASURED																			
OVERALL CALCULATED		86.8	87.6	89.1	90.3	92.1	94.1	96.1	97.2	98.1	90.2	84.3							129.8
PWL		96.5	97.8	98.4	101.3	133.3	105.2	105.5	107.2	108.2	100.3	103.4							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

OVERALL SOUND PRESSURE LEVELS (DB, REF. P= 2E-5 N/M**2) AND 1/3 OCT BAND SPECTRA FOR 10 MIC. MIC. (DB)

ANGLES FROM NOSE IN DEGREES (DB CORRECTIONS)

	FREQ. (CPS)	53. (0.93)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	158. (2.73)	0. 180.	0. 180.	0. 180.	0. 180.	90. 180.	0. 0
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	42.6	48.2	47.3	47.5	48.5	47.5	47.9	48.1	50.5	53.5	53.9						
VEHICLE B-55	125	42.5	45.3	46.5	47.9	51.7	51.3	52.3	53.8	53.2	53.7	52.4						
CONFIG 9H	160	46.9	49.0	49.4	50.6	50.4	50.5	52.0	52.7	53.6	54.5	52.1						
LOC SCHENECTADY	200	45.8	48.9	48.8	49.5	51.8	53.4	54.2	54.6	55.1	55.0	53.4						
DATE 12/5/74	250	49.2	51.3	53.7	54.1	54.7	54.8	56.1	55.4	55.2	55.2	52.5						
RUN 30/9	315	50.9	53.2	54.4	55.6	55.7	55.8	56.2	55.1	54.7	55.1	51.6						
TAPE	400	47.3	51.1	52.1	52.7	53.5	53.7	54.9	54.3	53.9	53.7	50.3						
BAR 30.1 IN HG	500	46.2	50.2	51.5	52.4	53.5	54.6	56.3	55.9	55.5	54.9	49.5						
(1015. MB)	630	50.6	52.2	54.9	55.7	57.7	58.8	59.9	58.8	57.4	55.1	49.3						
TAMB 46. DEG F	800	53.2	54.3	56.2	57.5	59.0	61.7	61.0	59.0	58.4	55.4	49.2						
(281. DEG K)	1000	51.6	53.7	55.3	57.6	59.7	60.0	60.9	61.0	59.3	56.4	47.1						
TRET 42. DEG F	1250	49.2	50.2	53.2	56.0	57.6	59.7	61.3	60.2	60.1	57.9	48.8						
(279. DEG K)	1600	47.4	48.6	51.8	54.1	55.7	58.3	59.8	57.4	57.6	54.9	45.6						
MACT 5.65 GM/M3	2000	45.7	46.3	49.1	51.9	53.3	54.4	54.4	54.2	54.4	50.6	42.3						
(.00565 KG/M3)	2500	44.7	46.4	46.9	51.6	53.5	54.7	55.2	54.4	54.0	49.5	41.4						
NFA 7004. RPM	3150	43.9	46.1	46.8	51.3	54.1	56.4	57.1	56.8	57.2	50.5	41.4						
(742. RAD/SEC)	4000	44.3	47.4	50.1	53.4	55.9	57.9	58.3	57.7	57.1	50.7	41.0						
NFK 7174. RPM	5000	48.7	43.8	46.5	49.4	51.5	54.1	55.2	54.9	53.2	44.0	36.8						
(751. RAD/SEC)	6300	37.6	41.1	43.5	46.0	48.5	50.1	50.2	50.0	48.7	42.2	32.0						
NFD 8823. RPM	8000	37.3	40.7	43.3	46.4	48.9	50.9	53.3	53.5	52.3	43.0	32.3						
(924. RAD/SEC)	10000	35.9	39.6	43.0	46.7	49.2	52.0	53.7	54.0	52.4	43.6	30.3						
NO. OF BLADES 18	12500	35.1	38.3	41.2	45.5	49.4	50.9	52.9	53.4	51.4	41.7	28.3						
FAN TIP SPEED	16000	29.5	31.6	35.8	39.5	43.5	45.6	47.4	46.1	44.6	33.3	16.3						
618. FT/SEC	20000	23.7	26.7	32.3	36.3	39.8	42.4	44.2	44.0	39.8	28.8	5.8						
	25000	15.3	19.5	25.7	30.3	32.9	35.6	36.5	35.5	30.1	14.3							
	31500	2.6	9.9	16.7	22.0	25.5	27.1	27.2	23.8	16.3								
	40000				4.6	8.1	10.4	10.2	4.3									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.3	63.3	65.3	66.5	68.2	69.5	70.4	69.9	69.1	66.8	62.4						
PNDB		70.3	72.8	75.2	77.4	79.7	81.4	82.1	81.7	81.1	78.4	68.8						

PAGE 1 FULL SCALE DATA REPORT FOR PROGRAM

MODEL SOUND PRESSURE LEVELS (SPL, dB re 20 MICRO-PASCALS) AT 70 PERCENT DES. RPM, DAY

	FREQ. (Hz)	50 (1.69)	60 (1.08)	74 (1.24)	71 (1.41)	91 (1.58)	101 (1.76)	111 (1.94)	122 (2.13)	134 (2.32)	145 (2.52)	157 (2.73)	0 (110.)	0 (110.)	0 (110.)	0 (110.)	0 (110.)	0 (110.)	0 (110.)	PWL
RADIAL 17. FT.	50																			
(5. FT)	100	67.0	70.4	71.9	71.4	72.1	73.2	73.4	74.2	76.9	83.3	87.1								112.0
VEHICLE ANGLE	125	76.3	77.4	76.4	77.4	76.9	77.2	79.4	79.9	81.5	83.3	86.9								114.0
CONFIG 0A	150	73.8	74.8	74.6	77.2	75.1	75.4	77.0	76.2	81.5	82.4	87.1								113.7
LOC SCHEDULED	200	72.6	72.4	74.1	74.7	75.9	75.9	79.6	81.2	83.0	86.1	84.1								113.1
DATE 12/5/74	250	77.3	77.4	79.1	79.9	80.4	81.6	82.6	84.4	85.6	87.1	89.1								117.2
RUN 30/10	315	79.5	79.6	79.6	80.3	80.6	81.2	81.7	82.1	83.2	86.6	86.6								116.1
TAPE	400	76.9	76.9	77.6	77.9	77.7	78.9	80.1	81.1	82.7	84.5	85.1								114.6
BAR 30.1 IN	500	75.1	75.6	75.6	77.4	78.1	79.4	81.9	82.6	83.7	84.3	84.1								113.9
(1584. M/S2)	630	76.9	78.1	79.4	80.4	81.9	83.7	85.1	85.2	85.2	85.9	84.5								117.4
TAMB 47. DEG F	800	80.6	82.9	81.6	83.2	84.4	85.7	86.6	86.9	86.5	85.3	84.4								118.9
(281. DEG K)	1000	79.4	79.9	80.9	82.7	84.1	85.4	87.3	86.6	87.0	86.3	83.1								118.7
TWET 42. DEG F	1250	76.7	76.4	78.4	81.2	82.7	84.7	86.6	86.9	87.7	86.9	83.4								118.5
(279. DEG K)	1600	74.4	75.2	77.1	78.9	81.5	83.9	84.8	83.9	85.5	85.1	81.1								116.5
MACT 5.55 GM/M3	2000	73.4	75.9	75.9	81.3	83.7	81.8	84.3	87.1	88.7	84.1	81.9								118.3
(.00555 KG/M3)	2500	73.4	74.2	76.4	77.1	79.5	81.9	82.0	82.9	84.5	81.9	79.6								114.8
BPA 7870. RPM	3150	72.9	74.3	75.6	78.1	80.9	82.7	83.5	83.8	85.0	81.6	78.8								115.5
(824. RAD/SEC)	4000	74.1	76.7	78.8	81.1	84.6	85.7	86.2	87.2	87.4	83.8	80.2								118.4
NFK 7993. RPM	5000	71.1	72.9	74.7	77.3	79.5	81.4	82.6	83.7	83.6	79.5	76.7								114.5
(834. RAD/SEC)	6300	68.9	70.7	72.4	75.0	77.6	78.9	79.6	80.5	81.0	78.2	74.8								112.2
NFD 8023. RPM	8000	69.0	71.1	73.2	75.9	77.9	80.0	82.7	83.5	84.7	79.4	75.9								114.9
(924. RAD/SEC)	10000	70.3	72.3	74.5	77.8	79.3	83.1	85.9	86.7	86.8	82.3	77.3								117.3
NO. OF BLADES 15	12500	71.3	72.4	75.9	79.1	81.7	84.8	87.0	89.5	89.6	84.8	79.7								119.8
FAN TIP SPEED	16000	69.3	71.1	73.8	77.7	80.2	82.7	85.4	88.3	88.1	82.9	77.4								118.5
687. FT/SEC	20000	70.1	71.5	75.5	78.2	81.8	84.6	87.1	89.7	90.2	84.9	80.2								120.7
	25000	71.0	71.9	75.7	77.7	81.1	84.5	87.7	90.1	90.4	85.5	80.7								121.0
	31500	71.0	73.0	76.7	81.3	83.4	86.1	87.9	89.7	90.1	84.3	78.3								122.7
	40000	72.6	73.8	75.2	78.7	81.5	84.1	87.7	88.3	88.2	83.7	78.5								122.7
	50000	69.9	68.3	72.2	74.8	77.3	79.9	83.1	83.2	83.0	80.8	69.4								119.8
	63000	71.3	66.7	70.0	69.1	71.3	73.7	76.9	75.1	75.3	73.8	65.9								110.1
	80000	72.7	70.5	71.5	68.4	68.9	69.7	71.2	69.3	69.8	69.1	66.4								117.8
OVERALL MEASURED																				
OVERALL CALCULATED		89.3	90.0	91.6	93.6	95.4	97.2	99.1	100.4	100.9	99.0	97.8								132.8
PAGE		99.4	101.0	102.8	104.8	106.9	108.5	109.8	110.4	111.1	109.5	106.7								

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = 76139 12 DAY 12 MO. 8.5

HOTEL SOUND PRESSURE LEVELS (30. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO OBSERVER (AXIAL=0 DEG.)

	FREQ.	30.	45.	60.	75.	90.	105.	120.	135.	150.	165.	180.
		(0.52)	(1.04)	(1.56)	(2.08)	(2.60)	(3.12)	(3.64)	(4.16)	(4.68)	(5.20)	(5.73)
	30											
	63											
SIDELINE 200. FT.	30											
(60.96 M)	100	43.4	47.7	49.1	49.7	53.5	51.4	51.2	51.1	54.0	54.5	57.0
VEHICLE R=65	125	52.3	54.6	54.2	53.6	55.2	55.3	57.1	56.8	56.0	54.7	56.8
CONFIG 9H	160	49.7	51.7	52.4	53.7	53.4	53.5	55.5	55.2	54.1	52.4	54.8
LOC SCHENECTADY	200	48.3	49.4	51.4	50.7	55.1	54.4	57.2	56.1	54.2	52.1	57.4
DATE 12/6/74	250	53.2	54.3	56.7	57.9	59.5	59.5	63.1	61.5	60.4	60.6	57.2
RUN 30/13	315	54.4	54.7	57.1	58.7	63.7	59.4	58.7	58.6	58.2	58.3	55.5
TAPE	400	52.3	53.6	56.1	58.3	58.5	57.7	57.4	57.5	57.6	57.2	53.8
BAR 30.1 IN	500	53.7	52.3	54.7	55.2	56.0	57.6	58.0	59.2	58.5	56.8	52.5
(1015. MB)	630	55.3	54.7	56.6	58.1	59.7	61.3	62.2	61.3	59.6	58.1	52.2
TAMB 47. DEG F	800	55.9	57.3	58.7	60.7	62.3	63.2	63.5	62.9	61.4	57.4	52.2
(281. DEG K)	1000	54.6	56.1	57.5	59.1	61.7	62.8	63.2	62.5	61.3	58.2	50.6
TACT 42. DEG F	1250	51.7	52.5	55.2	58.5	60.1	61.9	63.3	62.5	61.8	58.4	50.5
(279. DEG K)	1600	49.2	51.1	53.5	56.1	58.7	60.0	61.3	59.4	59.4	56.4	47.9
HACT 5.55 SM/HR	2000	48.3	51.6	55.3	58.7	60.3	57.9	60.6	62.4	61.6	59.1	48.1
(8.9355 KM/HR)	2500	47.7	49.7	52.8	56.8	58.6	57.7	58.2	57.9	57.6	52.5	45.4
NFA 7870. RPM	3150	45.9	48.1	51.6	54.6	56.6	59.1	59.3	58.6	58.1	51.5	43.4
(824. RAD/SEC)	4000	47.5	51.4	54.3	57.1	60.2	61.7	61.6	61.5	59.8	53.3	44.3
NFK 7903. RPM	5000	44.2	47.3	53.0	53.1	55.4	56.9	57.7	57.6	55.7	48.5	40.1
(834. RAD/SEC)	6300	41.1	44.3	47.6	50.2	52.6	53.9	54.1	53.6	52.7	46.0	38.3
NF2 6823. RPM	8000	39.9	43.3	46.5	49.9	51.9	54.7	56.9	55.3	54.3	45.2	34.6
(924. RAD/SEC)	10000	39.2	42.5	46.3	50.2	52.5	55.5	57.8	56.7	54.3	45.1	32.1
NO. OF BLADES 15	12500	37.4	40.6	45.3	49.3	52.2	54.9	56.2	56.0	54.2	44.0	28.8
FAN TIP SPEED	16000	33.6	35.1	39.4	43.4	47.1	49.2	50.7	51.4	47.8	35.6	18.1
687. FT/SEC	20000	25.5	30.1	36.1	39.9	43.7	45.8	47.2	47.1	42.0	29.2	7.4
	25000	17.6	22.6	29.1	33.6	38.7	39.2	40.6	39.3	33.7	17.6	
	31500	5.8	12.4	19.6	26.1	28.9	30.8	30.1	27.2	19.4		
	40000			2.4	7.4	12.1	13.7	14.0	8.1			
	50000											
	63000											
	80000											
OVERALL CALCULATED		64.3	65.8	67.7	69.4	71.2	72.3	73.2	72.9	72.1	69.8	64.1
PNLR		73.3	76.1	78.7	81.2	83.4	84.7	85.2	85.0	83.9	80.2	72.4

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

OVERALL SOUND PRESSURE LEVELS (DB, REF 20 MICRO PASCALS) FOR 30 FREQUENCY BANDS (1/3 OCTAVE)

	FREQ.	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	25000	31500	40000	50000	63000	80000	PWL
		(0.72)	(1.0)	(1.4)	(1.4)	(1.5)	(1.6)	(1.8)	(1.9)	(2.1)	(2.3)	(2.5)	(2.7)	(3.0)	(3.2)	(3.5)	(3.8)	(4.1)	(4.4)	(4.8)	(5.2)	(5.6)	(6.1)	(6.6)	(7.2)	(7.8)	(8.4)	(9.1)	(9.8)	(10.6)	(11.4)	(12.3)	(13.3)	(14.3)	(15.4)	)
RADIAL 17. FT.																																			
(50. REV)		100	69.3	70.4	71.9	71.0	72.5	73.4	73.5	74.2	74.2	83.1	66.9																						111.8
VEHICLE SPEED		125	73.8	77.4	76.1	75.3	76.4	77.9	79.1	66.4	82.0	63.8	66.9																						114.2
CONFIG 9R		150	74.3	75.1	74.5	74.7	75.4	75.6	77.9	76.4	81.5	84.3	76.9																						113.7
LOC SCHEDECTADY		200	72.3	72.5	73.9	74.1	76.5	75.9	79.9	80.2	83.2	84.3	83.1																						115.1
DATE 12/6/74		250	77.3	77.4	79.1	78.6	80.6	81.4	82.8	84.1	85.5	84.5	87.4																						117.1
RUN 30/11		315	78.4	78.5	78.9	81.2	82.9	81.4	82.1	82.1	83.8	85.1	84.1																						118.2
TAPE		400	76.6	77.1	77.9	77.7	78.4	79.2	79.9	81.7	82.5	84.3	85.6																						114.8
BAP 30.1 PSI		500	75.3	75.9	76.9	77.4	78.1	79.4	81.6	82.4	83.2	84.3	84.1																						114.8
(81584. V/PS)		630	77.6	78.1	79.6	80.4	82.2	83.7	85.1	85.2	85.2	85.8	84.8																						117.4
TAMB 47. DEG F		800	80.3	81.1	81.4	82.9	84.4	85.7	86.4	86.4	86.0	85.4	84.1																						119.8
(281. DEG K)		1000	79.5	80.4	80.9	82.7	83.9	85.2	87.1	86.9	87.2	86.1	83.3																						119.9
THET 42. DEG F		1250	76.7	76.7	78.4	81.2	82.9	84.2	86.8	86.9	86.2	86.4	83.4																						118.6
(279. DEG K)		1600	74.4	75.2	77.1	77.9	81.3	83.2	84.8	84.4	85.2	84.4	81.4																						118.5
MACT 5.55 GM/M3		2000	73.9	75.7	78.6	80.1	82.7	81.2	84.1	87.9	86.7	87.4	81.4																						118.4
(.00555 KG/M3)		2500	73.9	74.5	75.9	77.6	79.5	80.8	81.8	82.9	84.2	81.4	79.1																						114.8
NFA 7878. RPM		3150	73.2	73.7	75.1	77.3	78.3	82.2	83.0	83.8	81.8	81.6	78.9																						115.5
(825. RAD/SEC)		4000	74.6	76.7	78.3	81.6	84.2	85.7	86.2	87.2	87.7	83.9	80.0																						118.5
NFK 7971. RPM		5030	71.1	72.4	74.7	77.3	79.7	81.4	82.4	84.4	83.4	79.5	76.3																						114.7
(835. RAD/SEC)		6300	69.1	70.5	72.4	75.3	77.1	77.9	75.6	80.7	81.2	78.0	74.9																						112.1
NFC 8823. RPM		8000	69.0	71.4	73.2	75.9	78.0	80.5	81.2	83.2	84.7	79.4	76.1																						114.7
(924. RAD/SEC)		10000	69.8	72.0	74.3	77.8	80.3	82.9	85.4	86.7	87.1	82.8	77.3																						117.3
NO. OF BLADES 15		12500	71.3	72.4	75.6	79.3	82.0	84.3	87.3	88.4	89.5	84.3	79.7																						119.5
FAN TIP SPEED		16000	69.1	70.9	73.8	76.7	79.7	83.0	85.4	87.8	88.1	83.1	78.9																						118.4
688. FT/SEC		20000	69.6	71.5	75.0	78.2	81.5	84.1	87.3	90.2	90.2	84.7	80.4																						120.8
		25000	70.5	72.1	75.4	78.9	81.1	84.5	87.5	90.0	90.4	85.2	81.5																						121.7
		31500	72.3	73.3	76.9	80.9	82.7	84.4	87.7	89.2	89.9	84.5	78.8																						122.4
		40000	69.2	72.3	75.0	79.0	81.2	84.4	87.0	88.5	88.7	83.2	78.8																						122.7
		50000	69.1	66.0	71.7	74.9	78.5	79.9	83.3	82.9	83.3	80.1	80.9																						119.8
		63000	73.6	67.3	73.2	69.4	76.9	73.7	76.9	75.1	76.1	72.5	68.1																						110.1
		80000	73.0	71.3	71.5	68.4	68.9	69.5	70.9	69.0	69.5	68.8	68.4																						117.1
OVERALL MEASURED																																			
OVERALL CALCULATED		A9.4	90.2	91.6	93.6	95.3	97.2	99.1	100.4	101.0	98.9	97.7																							132.7
	PWL	59.7	101.1	102.6	105.0	107.0	108.4	109.5	110.5	111.2	109.1	108.8																							

MADE IN U.S.A. 25 SHEETS 100 SQUARES

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = 70.134 12 MAY 10 min. 0.0

NOISE SOUND PRESSURE LEVELS 150. DEG. F& 70 PERCENT REL. HUM. DAY)

OCTAVE BAND LEVELS (DB RE .0002 MICROBAR)

	FREQ.	53. (50.12)	64. (63.0)	71. (70.8)	81. (81.4)	91. (91.38)	101. (101.76)	111. (111.94)	122. (122.13)	134. (134.32)	148. (148.52)	159. (159.73)	0.	0.	0.	0.	0.	0.	0.
	50																		
	63																		
SIDELINE 200. FT.	80																		
(60.96 M)	100	43.4	47.7	49.8	56.2	51.0	51.7	51.4	51.1	53.4	50.5	56.8							
VEHICLE SPEED	125	52.0	54.6	54.2	54.1	54.7	56.1	56.8	57.3	57.4	57.2	54.4							
CONFIG	160	50.4	52.2	52.7	53.4	53.4	53.5	55.5	57.2	56.8	57.5	56.4							
LOC SCHEDULED	200	48.8	49.6	51.0	52.5	54.8	54.9	57.4	57.6	58.5	59.4	57.4							
DATE 12/8/70	250	53.0	54.3	56.7	57.9	58.7	59.3	60.9	60.7	60.8	58.7	57.0							
RUN 30/11	315	54.6	56.5	57.4	58.6	59.2	59.3	58.9	58.6	58.0	57.8	58.3							
TAPE	400	52.3	53.9	55.3	56.5	56.3	57.6	57.1	57.9	57.4	58.6	57.3							
BAR 30.1 IN HG	500	56.6	52.5	54.2	55.2	55.2	57.1	58.8	58.7	58.0	58.9	58.5							
(1015.4 MB)	630	53.1	54.7	56.9	58.1	59.9	61.3	62.2	61.3	58.6	57.8	58.5							
TEMP 47. DEG F	800	55.0	57.0	58.7	59.5	60.9	63.2	63.6	63.4	60.4	57.9	62.0							
(281. DEG K)	1000	54.3	56.8	57.3	59.1	61.4	62.5	63.9	62.7	61.4	58.6	61.9							
T-DT 42. DEG F	1250	51.7	52.7	55.2	58.3	60.3	61.4	63.5	62.6	62.3	58.2	60.5							
(276. DEG K)	1600	49.2	51.1	53.6	56.9	58.9	60.3	61.1	58.9	58.1	55.7	49.1							
MACH 5.55 SPEED	2000	48.5	51.4	55.1	58.0	59.5	61.1	62.4	63.2	62.4	59.3	47.6							
(1630.595 KM/HR)	2500	49.2	49.7	53.1	56.3	58.4	59.4	57.8	57.9	57.6	52.8	44.9							
NFA 7878. RPM	3150	47.1	48.2	51.6	54.3	56.2	58.0	58.8	58.6	58.5	51.8	43.9							
(825. RAD/SEC)	4000	48.2	51.4	53.4	57.5	60.4	61.7	61.4	61.5	60.1	53.3	44.0							
NFK 7971. RPM	5000	44.2	46.9	50.0	52.1	55.6	57.1	57.5	57.4	55.4	48.5	40.3							
(835. RAD/SEC)	6300	41.4	44.1	47.3	50.5	52.3	53.9	54.0	53.9	52.2	45.7	38.3							
NFE 8623. RPM	8000	37.6	43.3	46.6	49.9	52.2	54.5	56.4	55.5	54.3	45.2	34.6							
(924. RAD/SEC)	10000	31.7	42.6	46.1	50.2	53.3	55.3	57.0	54.7	54.5	45.1	32.1							
NO. OF BLADES 15	12500	37.4	40.6	45.1	48.5	52.5	54.4	54.5	54.2	53.0	43.5	29.8							
FAN TIP SPEED	16000	30.6	34.9	39.4	43.3	46.8	49.4	50.7	50.9	47.4	35.9	19.6							
688. FT/SEC	20000	25.3	30.1	35.6	39.9	43.7	45.8	47.5	47.6	42.9	24.9	7.7							
	25000	17.1	22.7	28.8	34.7	38.5	39.2	40.3	39.3	34.0	17.3								
	31500	4.2	12.7	19.6	25.6	28.1	31.0	29.8	26.7	19.1									
	40000			2.2	8.5	11.7	14.0	13.2	8.4										
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		64.1	66.3	67.7	69.7	71.2	72.3	73.2	73.0	72.2	69.6	68.0							
MEAS		73.6	76.1	76.5	81.4	83.5	84.7	85.2	85.1	84.1	79.6	72.2							

PAGE 1 FULL SCALE DATA [illegible]

NOISE LEVELS (SPL, dB, re 20 MICROPASCALS) AT 10 DEG. INCREMENTS FROM INLET (0 DEGREES FROM AXIS)

	FREQ.	53. (0.52)	63. (1.03)	74. (1.44)	81. (1.61)	91. (1.81)	100. (1.99)	111. (2.21)	122. (2.43)	133. (2.65)	145. (2.89)	159. (3.16)	0.	10.	20.	30.	40.	50.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. KT	100	77.3	78.4	82.4	84.7	84.1	82.7	79.9	73.9	70.5	74.8	76.6							115.0
VEHICLE R-SS	125	69.8	87.4	89.6	87.7	89.1	88.1	87.4	83.9	77.7	71.8	73.9							103.5
CONFIG 9A	160	84.3	85.4	85.8	84.2	86.1	86.2	87.9	88.7	71.7	72.8	74.4							102.9
LOC SCHENECTADY	200	85.0	84.4	86.6	86.9	87.6	87.6	78.9	77.1	73.5	74.5	76.5							105.2
DATE 12/6/74	250	87.5	88.4	89.9	89.4	78.1	78.1	71.8	72.1	73.0	74.5	74.3							103.5
RUN 35/12	315	87.5	78.8	71.8	71.3	71.5	71.4	71.8	72.9	72.7	74.1	74.1							100.1
TAPE	400	84.1	87.8	87.9	78.4	72.5	71.2	71.4	73.4	73.0	73.8	73.3							109.5
BAR 30.1 IN	500	87.6	88.9	89.4	78.2	72.9	72.7	74.6	75.2	75.5	75.5	75.6							107.0
(1015. MB)	630	78.6	71.4	72.4	73.4	74.9	77.7	78.4	78.2	78.1	79.1	79.1							110.2
TAMB 47. DEG F	800	74.9	74.9	75.6	76.4	77.9	79.2	80.3	79.6	79.2	79.3	78.8							112.3
(281. DEG K)	1000	77.1	73.4	73.9	77.7	77.4	77.9	61.1	61.9	62.0	62.2	77.6							113.3
T-ET 42. DEG F	1250	79.9	71.2	74.6	78.2	61.9	86.5	86.4	86.1	84.5	84.6	79.5							117.4
(279. DEG K)	1600	87.4	87.7	71.1	74.5	77.5	78.0	81.1	80.3	78.5	81.4	73.9							114.3
H4CI 5.55 GM/M3	2000	83.7	84.9	86.4	87.8	78.6	78.7	72.3	77.6	73.7	73.9	69.4							104.9
(0.00555 KG/M3)	2500	85.2	86.5	87.4	88.6	71.8	74.0	75.5	75.8	76.2	74.4	70.3							107.6
NFA 5517. RPM	3150	83.9	85.2	86.3	84.6	71.3	73.5	75.3	75.8	76.2	76.5	70.9							107.7
(578. PAR/SEC)	4000	83.6	85.7	86.8	88.4	71.5	73.7	74.9	75.2	76.0	76.5	70.7							107.4
NFK 5562. RPM	5000	81.1	82.6	84.0	86.1	68.2	72.4	73.1	74.2	74.8	71.5	69.9							104.8
(582. PAR/SEC)	6300	59.8	81.2	82.4	83.7	66.3	67.1	69.0	70.7	72.1	69.5	64.8							102.3
NFD 6823. RPM	8000	81.3	82.4	84.3	85.7	67.5	70.5	72.9	74.0	77.0	73.2	66.3							104.2
(924. PAR/SEC)	10000	82.0	83.2	84.8	87.3	69.3	72.0	73.9	77.4	78.8	75.2	70.3							108.3
NO. OF BLADES 16	12500	84.8	85.7	86.1	88.3	71.5	74.0	74.8	75.3	80.6	77.9	72.7							110.2
FAN TIP SPEED	16000	87.0	87.9	84.3	86.7	78.2	78.7	75.8	77.1	80.1	78.9	71.2							109.4
482. FT/SEC	20000	83.6	83.8	85.2	88.7	71.6	74.9	77.3	79.7	81.7	77.7	72.7							111.5
	25000	85.2	85.1	86.4	89.0	71.6	74.2	77.0	78.7	80.3	78.7	72.0							111.3
	31500	85.0	84.8	86.7	78.3	73.2	75.8	78.4	80.0	81.1	77.9	70.5							113.2
	40000	85.5	84.1	85.7	87.7	72.5	73.8	76.2	77.5	79.0	75.7	68.9							112.5
	50000	88.6	85.3	87.4	88.5	69.3	69.8	73.1	71.7	73.5	71.9	64.2							110.4
	63000	79.8	85.7	89.7	87.9	67.8	67.7	70.4	68.9	68.6	67.1	64.8							111.2
	80000	78.7	88.2	71.5	88.2	68.4	69.2	69.4	66.2	67.2	67.8	64.4							110.2
OVERALL MEASURED																			
OVERALL CALCULATED		83.3	84.3	86.4	88.3	89.4	90.8	92.1	92.4	92.8	92.3	86.8							129.6
	PWL	91.1	92.2	93.8	96.9	87.9	88.8	101.7	101.7	102.4	102.1	97.2							

PAGE 3 FULL SCALE DATA RETRIEVAL PROGRAM

FAIL = 10 OUT OF 12 MAT 10 MF. 5.0

MODEL SUPER PERSONIC LEVELS 150, 154, & 70 PERCENT REL. NUM. (AT)

ANGLES FROM INLET I. DEGREES (OFF CENTERLINE)

| | | |

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = RUNIN 12 DAY 9 MN. 14.3

MODEL SOUND PRESSURE LEVELS (SS. LEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(9. %)	100	72.8	70.4	68.8	62.4	69.1	81.2	74.1	71.9	80.5	74.0	75.1							113.8
VEHICLE B-55	125	67.5	68.1	70.9	68.4	70.4	68.4	68.1	70.9	70.5	71.0	73.9							109.0
CONFIG 1P	160	64.5	65.9	66.4	66.4	67.1	66.9	66.6	69.4	82.0	73.5	74.1							107.3
LOC SCHENECTADY	200	66.0	65.1	66.4	66.7	67.4	69.1	70.4	71.4	85.5	74.0	75.0							110.2
DATE 12/5/74	250	70.5	68.4	70.1	69.4	70.1	70.6	72.1	72.1	79.5	73.0	74.3							107.1
RUN 2001	315	72.3	70.6	71.4	71.4	71.9	71.9	72.1	71.0	80.2	74.1	73.0							112.7
TAPE	400	67.9	69.1	69.4	69.7	69.9	70.2	71.1	71.0	87.2	73.3	73.1							111.2
BAR 30.0 IN	500	67.9	69.4	70.4	70.7	71.4	73.2	74.0	74.9	81.5	75.0	73.0							108.8
(01305. N/M2)	630	71.4	71.9	73.4	72.9	74.9	76.2	78.1	77.9	83.5	78.3	75.1							111.4
TAMB 39. DEG F	800	75.4	74.9	75.1	75.4	77.1	78.4	79.8	79.4	87.0	79.1	76.1							113.9
(277. DEG K)	1000	71.1	72.4	72.1	73.9	74.4	78.4	80.1	80.6	86.7	80.3	76.4							113.6
THET 35. DEG F	1250	72.7	71.9	75.1	77.0	79.2	81.5	83.1	82.9	83.7	84.4	76.1							114.9
(275. DEG K)	1600	80.4	80.9	79.1	79.8	79.7	77.2	78.3	77.9	84.2	79.4	76.6							111.7
RHOV 4.23 GM/M3	2000	66.9	67.0	68.1	69.1	74.2	71.8	73.3	73.6	82.2	74.4	73.9							108.8
(.00423 KG/M3)	2500	65.2	68.0	68.8	70.9	74.5	74.3	74.3	74.9	80.7	78.2	77.9							105.1
NFA 5450. RPM	3150	63.9	65.7	67.1	68.4	73.5	73.5	75.8	75.6	84.0	78.4	75.6							108.9
(571. RAD/SEC)	4000	64.9	67.2	68.1	70.4	74.9	75.8	77.0	77.3	85.4	79.6	79.3							112.0
NFR 5504. RPM	5000	61.1	63.2	64.5	66.1	68.5	70.9	73.2	74.2	79.4	73.3	75.5							108.6
(583. RAD/SEC)	6300	62.2	62.0	62.7	64.3	67.1	68.7	70.2	71.3	77.7	71.3	75.3							105.2
NFB 8823. RPM	8000	60.6	62.7	64.3	65.0	67.0	70.0	72.2	74.3	80.6	75.5	77.7							106.4
(924. RAD/SEC)	10000	62.4	63.8	65.4	66.6	69.4	72.7	75.0	77.3	79.9	78.0	79.9							105.5
NO. OF BLADES 18	12500	64.2	65.5	66.7	68.4	71.8	73.4	76.9	79.4	82.1	79.9	80.8							111.5
FAN TIP SPEED	16000	64.2	63.8	65.1	67.1	70.3	72.8	76.0	79.2	81.9	78.2	80.0							111.2
876. FT/SEC	20000	64.0	64.1	66.3	68.0	72.1	75.2	78.4	81.0	83.8	80.0	78.8							112.8
	25000	64.1	65.6	66.9	69.4	72.9	75.7	77.8	80.2	81.5	79.2	75.9							112.7
	31500	66.4	65.9	67.9	70.7	74.6	78.8	80.4	82.7	84.1	81.2	74.7							110.0
	40000	69.6	66.8	68.7	67.9	71.4	75.6	78.4	79.8	81.5	79.2	78.7							119.1
	50000	72.3	64.9	67.9	66.3	69.6	70.7	73.9	74.1	78.4	74.5	67.6							112.1
	63000	78.7	67.9	69.2	66.1	67.4	67.8	69.8	69.3	69.5	68.5	66.3							113.8
	80000	76.3	66.8	69.7	66.1	67.2	67.3	67.6	67.4	68.4	66.1	65.7							110.8
OVERALL MEASURED																			
OVERALL CALCULATED		85.4	83.6	85.8	87.0	88.6	89.8	91.3	92.2	93.7	92.5	90.8							120.8
	PNOY	91.7	93.0	94.2	95.7	98.3	99.5	101.0	101.4	102.0	102.9	102.3							

MODEL SCRUB PRESSURE LEVELS (90. 100. & 70 PERCENT REL. NUM. DATA)

CHOKES FROM INLET IN DEGREES (AND RADIANS)

		53. (.92)	63. (1.10)	73. (1.24)	83. (1.41)	93. (1.58)	103. (1.74)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0.	0.	0.	0.	0.	0.	0.
	90																		
	93																		
SIMULATED 200. FT.	96																		
(60.96 M)	100	49.1	53.7	58.6	63.7	68.5	59.4	65.9	69.8	59.0	68.6	65.8							
VEHICLE 0-55	125	43.8	45.3	49.7	60.6	69.7	60.4	65.8	67.8	59.0	64.9	63.8							
CONFIG 1C	150	42.7	43.0	44.2	44.6	65.4	45.8	64.2	66.2	59.3	60.6	63.6							
LOC SC-ELECTARY	200	42.1	42.1	44.1	44.7	65.9	47.2	67.9	68.1	60.7	67.6	64.6							
DATE 12/9/74	250	48.5	45.3	47.7	47.4	68.2	64.6	69.6	68.7	59.0	66.7	63.8							
RUN 28/1	315	68.4	67.5	68.9	69.3	68.9	68.8	68.5	68.1	60.2	68.8	62.5							
TAPE	400	63.5	65.9	66.6	67.5	67.4	64.4	68.6	68.8	60.1	65.9	61.8							
BAR 29.00 IN	500	63.4	64.6	67.7	68.4	69.2	56.9	51.8	51.2	59.2	68.6	62.8							
(81365. N/M2)	630	67.1	68.4	59.6	59.8	59.7	53.4	55.2	54.8	59.1	59.8	63.3							
TAMB 30. DEG F	800	56.7	51.3	52.2	53.8	54.9	55.8	56.8	55.4	60.4	61.1	64.6							
(277. DEG K)	1000	46.3	48.8	49.1	51.3	53.9	55.8	56.9	56.5	59.8	59.2	61.9							
TWET 35. DEG F	1250	47.7	48.8	52.8	54.3	56.6	59.7	59.8	58.6	59.8	55.9	63.3							
(275. DEG K)	1600	44.2	44.8	47.8	50.8	51.9	54.3	54.8	53.4	59.1	69.7	61.4							
MACH 0.23 GM/M3	2000	41.5	42.8	44.6	48.8	51.3	48.4	49.6	48.9	59.9	65.3	68.1							
(.000423 SLG/M3)	2500	38.5	43.5	44.9	47.8	51.4	51.8	59.4	69.9	59.1	68.8	63.7							
VEL 9000. FPM	3150	37.9	48.9	43.1	44.9	58.1	49.8	61.8	58.3	59.8	68.6	68.7							
(971. KNOT/SEC)	4000	38.3	41.9	43.8	48.4	49.2	51.8	52.4	51.5	59.9	69.8	63.3							
RPM 5904. RPM	5000	34.2	37.6	38.8	41.9	44.4	48.7	48.3	48.2	59.5	62.3	58.9							
(983. RAD/SEC)	6300	32.4	35.6	37.3	39.4	42.4	43.7	44.5	44.4	49.7	39.8	38.9							
RPM 8933. RPM	8000	31.7	35.1	37.7	39.6	42.8	44.8	45.8	48.1	59.4	61.3	38.4							
(924. RAD/SEC)	10000	31.3	34.5	37.2	39.1	42.1	45.1	48.6	47.3	49.4	61.1	34.6							
NO. OF BLADES 18	12500	33.3	33.7	36.2	38.7	42.3	43.8	48.1	48.8	49.5	39.1	28.9							
FAN TIP SPEED	16000	28.7	27.8	38.8	38.7	37.2	38.3	41.3	42.3	49.2	31.8	19.7							
476. FT/SEC	20000	21.4	22.7	28.9	38.5	34.3	38.9	38.8	38.5	38.5	24.3	8.8							
	25000	14.8	18.3	28.3	24.3	28.2	38.4	38.5	28.5	28.2	11.3								
	31500	2.4	5.3	18.7	15.5	28.8	23.2	22.5	28.1	28.3									
	40000					2.1	5.2	4.7											
	50000																		
	63066																		
	80000																		
MYEQUIV CORCOR EFF		58.1	59.7	62.6	64.2	65.4	66.8	66.3	66.2	59.1	62.8	58.6							
	84000	64.8	68.8	78.8	72.8	74.8	75.7	76.7	75.9	61.7	72.8	66.8							

NC

PAGE 1 FULL SCALE DATA ACQUISITION PROGRAM PROC. DATE = MONTH 12 DAY 9 PR. 16.3

SOUND PRESSURE LEVELS (DB, REF. P= 20 MICRONT REL. NOR. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	63. (1.10)	73. (1.24)	83. (1.41)	93. (1.59)	103. (1.78)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL ID. PT.	80																		
(% MI	100	79.8	75.4	72.4	71.2	69.4	69.7	71.1	69.6	72.7	75.3	77.9							108.0
VEHICLE 0055	125	64.8	69.9	71.0	70.4	71.4	71.2	71.6	72.9	74.0	75.0	77.4							108.0
CONFIG 1A	160	67.3	68.8	68.9	69.2	68.6	69.7	71.4	72.4	74.2	76.8	78.1							108.4
LOC SCHEIBEFLACH	200	67.3	69.1	69.1	69.4	70.1	72.4	73.1	74.4	76.0	78.0	78.0							107.7
DATE 12/9/74	250	69.3	70.6	72.4	72.6	72.9	73.1	74.6	74.9	76.9	77.3	78.1							108.3
RUN 2002	315	71.6	73.9	74.1	74.2	74.5	74.9	75.3	75.1	75.7	77.0	77.3							106.2
TAPE	400	70.1	71.4	71.4	71.7	71.9	72.9	73.8	74.0	75.2	76.0	76.0							107.0
BAR 30.[illegible] HG	500	69.0	71.6	71.9	72.7	73.6	74.4	74.9	77.7	78.9	78.3	78.9							109.6
(81305. N/M2)	630	73.4	74.4	76.1	76.2	77.4	78.9	81.6	85.7	88.7	89.3	77.9							112.7
TAMB 68. DEG F	800	77.1	76.9	76.0	77.2	79.1	80.2	81.0	81.7	82.0	81.1	77.0							110.0
(293. DEG K)	1000	77.9	74.0	74.6	74.9	74.9	81.0	82.3	83.1	83.2	82.1	78.0							114.3
THET 3%. DEG F	1250	71.2	72.2	74.1	76.0	79.9	80.7	82.0	82.9	83.0	82.0	78.0							114.3
(279. DEG K)	1600	74.2	77.4	78.4	79.3	81.2	81.0	81.3	82.7	84.2	83.1	78.9							115.0
RHOT 3.03 [illegible]	2000	67.4	70.0	71.0	72.6	74.3	75.5	76.1	76.9	78.5	78.4	73.1							109.1
(1.03393 KG/M3)	2500	67.7	70.5	71.9	73.6	74.5	76.0	77.1	77.4	79.3	77.2	73.1							108.9
MFA 4[illegible]. RPM	3150	69.2	69.8	70.9	72.9	74.3	79.3	80.1	80.6	82.8	81.4	78.0							112.2
(432. M/SEC)	4000	69.2	71.6	72.6	74.7	77.5	80.0	81.5	81.8	82.5	82.1	77.0							113.4
MFA 4347. RPM	5050	64.4	66.5	68.3	70.4	73.3	75.5	77.2	79.7	79.4	78.4	75.7							106.5
(469. M/SEC)	6350	62.5	64.0	66.5	68.8	70.7	73.2	74.8	74.6	75.7	72.8	77.1							106.9
MFD 4823. RPM	8000	63.4	65.2	66.8	69.3	71.4	74.0	75.8	75.8	78.8	78.8	66.9							110.8
(826. M/SEC)	10000	64.0	66.6	68.2	71.2	73.7	77.3	79.3	81.8	82.7	79.3	83.4							112.9
NO. OF BLADES 19	12500	68.2	69.1	70.0	72.2	74.2	76.9	80.2	82.9	84.7	81.7	85.4							114.7
FAN TIP SPEED	14000	66.0	66.4	68.8	70.9	73.6	77.2	79.3	82.8	84.8	79.8	86.8							114.5
566. FT/SEC	20000	67.2	66.9	66.8	72.9	74.4	76.8	81.7	84.0	85.8	82.5	86.5							110.5
	25000	69.2	67.6	69.8	72.7	76.3	79.2	81.4	84.9	84.8	81.4	83.9							110.4
	31500	66.8	66.8	70.8	74.4	78.8	82.8	83.8	85.9	87.1	82.4	81.8							119.1
	40000	70.8	66.4	68.8	71.8	76.3	78.5	81.8	83.9	84.7	81.8	78.1							118.3
	50000	72.8	65.2	69.8	68.3	78.9	76.5	77.2	77.9	79.8	78.8	72.5							115.1
	63000	76.7	67.8	69.4	66.4	68.8	69.1	71.8	71.8	72.8	69.8	70.9							114.7
	80000	75.9	67.8	69.1	65.8	64.8	67.8	67.6	67.2	66.8	65.8	66.2							113.8
OVERALL MEASURED																			
OVERALL CALCULATED		84.2	86.1	86.9	88.1	90.2	92.3	93.9	95.2	96.2	94.4	94.8							120.3
	PWL	96.3	96.7	97.7	99.8	101.2	103.2	104.5	105.1	105.9	105.3	102.8							

PAGE 1 FULL SCALE data production ranges

PAGE, DATE - MONTH 12 DAY 9 PR. 14.3

MIXED SOUND PRESSURE LEVELS (RE. 1EE. F. 70 PERCENT REL. HUM. DAY)

OVERALL DATA (UNIT IS DECIBELS AND DB(A))

		53.	63.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.
	PAGE.	(0.92)	(1.09)	(1.26)	(1.41)	(1.59)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	10.	110.	110.	110.	110.	160.
	50																	
	63																	
SPECIFIC 203. FT.	90																	
(60.00 M)	100	49.1	52.7	57.3	49.5	44.2	47.9	48.0	46.3	47.0	48.0	47.0						
VEHICLE 0-45	125	45.3	47.1	49.5	48.0	50.2	44.3	49.3	49.0	49.4	48.0	47.1						
COMPIG 10	150	43.6	45.7	46.7	47.3	47.9	47.4	49.8	49.2	49.6	50.8	47.0						
LOC SCHEDULED	200	43.1	45.1	46.6	47.5	49.3	53.7	46.7	51.1	51.2	51.0	47.9						
DATE 12/9/74	250	45.2	47.5	54.4	51.6	58.7	51.1	52.1	51.5	51.1	50.2	47.2						
RUN 20/2	315	47.0	56.7	51.6	52.1	59.0	57.8	42.7	51.6	50.7	46.3	46.2						
TAPE	400	45.9	48.1	48.8	49.5	48.4	59.7	50.9	51.0	50.1	49.2	49.3						
BAR 30.0 MB	500	45.4	48.3	49.2	50.4	51.5	53.1	46.0	53.0	52.7	50.0	45.3						
(0196. M/S2)	630	48.0	50.9	53.4	53.8	44.2	50.5	57.7	50.0	55.4	52.0	48.8						
TEMP AT 105 F	800	52.4	53.3	54.3	54.7	54.8	54.2	54.8	57.7	54.8	53.1	49.5						
(378. DEG C)	1000	44.1	51.1	51.6	54.3	54.4	54.3	54.2	54.0	57.5	53.9	44.1						
TEMP 36. DEG F	1250	46.2	48.3	51.8	54.0	54.3	57.9	49.5	54.6	57.1	54.2	43.5						
(275. DEG C)	1600	48.8	53.3	55.8	54.4	54.5	54.8	47.8	54.2	57.1	54.4	43.0						
HACT 3.03 GM/M3	2000	49.4	49.7	49.1	49.8	51.3	52.4	49.4	52.2	52.1	47.4	38.4						
(.00189. KG/M3)	2500	42.8	48.8	49.2	54.4	52.4	53.5	53.2	52.5	52.0	47.8	38.8						
WPA 823. DBW	3150	41.2	44.9	48.9	49.4	51.8	54.7	55.8	55.4	55.8	51.8	41.7						
(482. DB/SEC)	4000	41.8	45.7	48.1	54.7	53.7	54.8	54.8	54.8	54.9	51.8	41.1						
WPA 6347. DBW	5000	37.9	48.8	43.8	48.2	49.2	51.2	52.3	52.7	51.5	48.3	39.1						
(805. DB/SEC)	6300	34.7	38.4	41.1	43.9	44.9	48.2	48.3	47.7	48.8	48.3	38.8						
WPB 8023. DBW	8000	34.2	37.8	42.2	43.3	44.5	46.8	49.8	54.8	49.4	42.8	38.7						
(924. DB/SEC)	10000	33.9	37.3	48.8	43.8	44.4	49.7	54.8	51.8	54.2	42.4	38.2						
NO. OF BLADES IS	12500	34.3	38.2	38.5	42.5	44.6	44.1	49.8	54.8	49.1	48.8	34.4						
FAN TIP SPEED	16000	27.3	34.4	33.8	37.8	44.5	43.8	44.8	49.1	43.3	32.5	28.2						
944. FT/SEC	20000	22.8	25.4	29.4	33.8	37.5	40.8	41.8	41.5	38.3	28.8	13.8						
	25000	15.8	18.3	23.8	27.9	31.2	33.9	34.3	33.3	27.8	13.8							
	31500	3.8	8.8	13.7	19.3	24.2	28.7	24.8	23.4	10.3								
	40000				1.7	4.3	9.1	4.1	3.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		50.2	61.8	63.1	64.5	66.2	67.5	66.2	67.8	66.8	63.9	57.8						
		66.8	72.1	73.8	75.5	77.6	78.4	66.1	78.6	78.7	78.2	67.2						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = NUMIN 12 DAY 0 PR. 14.3

MODEL STATIC PRESSURE LEVELS (DB. REF. P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET (0 DEGREES FAN AXIS)

	FREQ.	53.	62.	71.	81.	91.	101.	111.	122.	132.	142.	152.	0.	0.	0.	0.	0.	0.	PWL
		53	62	71	81	91	101	111	122	132	142	152	0	0	0	0	0	0	
		62	71	81	91	101	111	122	132	142	152	162	0	0	0	0	0	0	
RADIAL (P. PT.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(0.	100	90.5	72.9	72.9	78.7	78.4	78.7	71.4	71.7	74.7	78.1	81.9							108.4
VEHICLE	125	73.8	80.4	84.1	78.7	74.9	73.9	74.4	77.2	78.9	79.8	82.8							112.8
CONFIG	160	69.3	71.4	71.9	72.2	79.4	72.7	74.9	75.7	78.8	48.6	81.8							109.6
LOC SCHEDULED	200	66.8	69.9	71.1	71.7	73.4	75.1	75.9	77.1	79.8	82.1	83.3							111.8
DATE 12/5/78	250	72.8	73.8	75.1	75.4	74.4	78.5	79.3	78.4	80.0	81.1	81.8							111.8
RUN 2873	315	73.8	78.4	78.4	78.7	77.8	74.4	78.3	78.4	79.8	81.1	81.3							112.3
TAPE	400	71.1	74.4	74.1	74.7	74.9	75.9	74.9	77.1	78.5	48.8	88.1							110.8
BAR 30.0 IN	500	72.4	74.4	74.9	75.7	76.9	74.2	89.1	88.2	88.7	81.1	78.1							112.4
(81305. N/M2)	630	73.8	78.5	74.1	78.4	78.9	81.5	83.4	83.2	83.8	83.1	79.9							115.2
TAMB 41. DEG F	800	78.1	78.4	74.9	79.7	88.8	82.7	83.8	83.4	83.5	83.3	79.4							115.8
(278. DEG K)	1000	74.9	78.9	77.1	79.2	81.4	83.8	84.8	84.8	84.7	83.8	78.9							118.3
TWET 35. DEG F	1250	73.7	74.7	78.8	78.5	88.7	82.7	84.8	84.4	84.7	83.8	78.8							118.1
(275. DEG K)	1600	73.4	74.4	77.1	78.8	81.5	83.3	83.8	82.4	82.8	81.8	77.4							115.2
RHOT 3.66 G/M3	2000	78.7	73.2	76.2	78.4	74.8	88.3	81.1	88.8	81.5	79.4	78.4							113.5
(.00364 KG/M3)	2500	78.7	73.3	74.7	78.4	74.5	79.5	48.1	88.1	82.8	79.2	75.8							112.8
MFR 7329. M**	3150	78.8	72.8	73.9	75.7	78.3	81.8	82.3	82.1	83.8	48.7	78.4							114.8
(736. KG/SEC)	4000	72.7	74.5	78.8	78.9	81.4	84.8	86.3	85.8	88.8	83.4	78.8							117.2
MFR 7194. M**	5000	84.2	79.5	72.8	78.7	77.5	78.8	81.2	81.8	81.7	78.4	75.3							112.7
(749. KG/SEC)	6300	84.8	88.4	78.8	72.8	78.8	78.4	77.5	78.1	78.8	75.8	74.8							108.8
MFR 8825. M**	8000	86.8	88.5	78.4	72.8	75.4	78.4	88.3	81.8	82.8	78.1	78.8							112.7
(924. KG/SEC)	10000	87.5	88.4	72.8	75.8	77.5	84.8	83.8	84.4	85.5	81.8	78.8							115.5
NO. OF BLADES IS	12500	88.8	78.2	73.1	75.8	78.7	82.3	84.8	88.2	87.2	83.8	82.7							117.3
FAN TIP SPEED	16000	88.8	88.8	71.5	74.2	77.7	88.4	83.3	85.5	88.5	82.3	82.8							116.7
814. FT/SEC	20000	88.3	89.1	72.8	75.5	78.7	82.5	85.2	88.8	88.8	84.5	84.3							119.2
	25000	88.4	78.1	78.9	78.2	78.8	87.2	85.8	87.2	88.8	83.9	83.7							118.8
	31500	78.1	76.8	74.8	78.1	81.7	84.8	87.3	88.3	88.8	84.8	82.4							121.8
	40000	88.3	88.5	71.4	75.2	78.2	82.8	85.7	87.1	87.5	83.5	78.2							121.4
	50000	71.8	84.3	89.8	71.1	74.7	78.1	81.3	84.7	81.8	78.4	78.8							118.2
	63000	77.8	87.3	84.8	88.8	88.1	71.8	74.3	73.8	74.3	72.1	88.1							115.8
	80000	78.5	87.8	88.7	88.2	88.8	88.7	88.5	87.8	87.8	87.3	88.8							119.8
OVERALL MEASURED																			
OVERALL CALCULATED		87.2	88.4	88.5	88.8	83.8	88.2	87.3	88.8	88.8	88.3	88.8							128.8
	PWL	97.8	99.1	188.7	182.4	184.8	188.8	188.3	188.2	184.8	187.8	184.2							

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE QSS
CONFIG 10
LOC SCHENECTADY
DATE 12/5/74
RUN 28/3
TAPE
BAR 30.0 MB (91305. N/M**2)
TAMB 41. DEG F (278. DEG K)
THET 35. DEG F (275. DEG K)
HACT 3.64 GM/M3 (.00364 KG/M3)
NFA 7020. RPM (736. RAD/SEC)
NFR 7154. RPM (749. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES IS 16
FAN TIP SPEED 814. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	42.9	50.7	50.4	49.0	49.0	48.9	49.2	48.6	50.3	52.5	51.0						
125	49.3	57.6	58.0	54.9	53.2	52.1	52.1	54.0	53.9	53.2	52.4						
160	45.4	48.7	49.7	50.3	50.6	50.8	52.5	52.4	53.3	53.8	51.4						
200	45.1	48.9	48.8	49.7	51.6	53.2	53.4	53.8	54.2	55.1	52.7						
250	48.0	50.5	52.7	53.4	54.5	54.6	55.8	55.0	56.1	54.0	50.7						
315	49.6	53.2	53.9	54.6	54.7	56.3	55.7	54.9	54.0	53.0	50.2						
400	47.5	51.1	51.6	52.5	52.8	53.7	54.1	53.5	53.4	53.2	48.8						
500	48.4	51.0	52.2	53.4	54.7	55.9	57.3	56.4	55.5	53.5	47.5						
630	51.1	53.2	55.4	56.1	57.7	59.0	60.4	59.3	57.6	55.3	48.0						
800	53.5	54.8	56.0	57.2	58.5	60.2	60.8	59.4	57.9	55.4	47.2						
1000	50.1	53.1	54.1	56.8	58.9	60.3	61.7	60.5	59.0	55.7	46.4						
1250	48.7	50.8	53.5	55.8	58.1	59.9	61.5	60.1	58.8	55.5	45.2						
1600	48.2	50.3	53.8	55.9	58.7	60.3	60.3	57.9	56.6	52.9	44.1						
2000	45.2	48.9	51.6	53.5	55.8	57.1	57.4	55.9	56.1	50.4	42.6						
2500	45.0	48.7	50.9	53.1	55.4	56.2	56.2	55.2	55.4	49.8	41.4						
3150	43.9	47.2	49.9	52.1	54.9	57.5	56.1	56.9	56.6	50.8	41.4						
4000	46.1	49.2	52.2	55.0	57.7	60.0	61.6	60.1	58.4	52.8	43.6						
5000	41.3	44.9	47.9	50.5	53.5	54.7	56.3	55.7	53.8	47.4	38.0						
6300	38.2	42.2	45.1	47.9	50.2	51.8	51.9	51.2	50.1	43.3	38.2						
8000	34.8	40.9	43.8	46.8	49.6	52.4	53.5	53.4	52.4	44.9	38.7						
10000	36.4	40.1	43.8	47.4	50.2	53.2	55.2	54.4	53.0	45.8	34.7						
12500	35.7	38.3	42.6	45.8	49.2	52.4	54.0	53.7	51.8	43.0	31.7						
16000	28.3	32.9	37.1	40.8	44.5	46.9	48.6	48.6	45.8	38.1	22.5						
20000	23.8	27.7	33.2	37.3	40.8	44.1	45.4	45.5	41.5	28.8	11.8						
25000	16.1	20.8	26.3	31.1	35.2	38.9	38.5	38.5	31.9	16.8							
31500	4.0	10.2	10.9	22.9	27.2	29.6	29.4	25.8	18.2								
40000				5.8	0.8	12.4	12.0	6.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.8	64.3	69.8	66.9	68.7	70.2	71.2	70.0	69.0	60.2	61.2						
PNDB	70.7	74.8	76.5	76.7	81.8	82.6	84.0	82.7	81.8	77.0	69.1						

PAGE 1 FULL SCALE Data REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 9 HR. 14.3

MODEL SCALE PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	(0.92)	(1.08)	(1.24)	(1.41)	(1.58)	(1.74)	(1.91)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	) (0.	) (0.	) (0.	) (0.	) (0.	)	
	50																			
	53																			
RADIAL 17. PT.	80																			
(5. MI	100	73.3	72.3	75.4	72.9	73.6	74.1	74.1	74.1	77.4	81.5	85.0								111.4
VEHICLE B-55	125	76.6	79.8	81.1	80.6	81.6	80.9	81.6	83.1	83.1	84.2	86.8								116.2
CONFIG 1D	160	78.5	75.3	76.4	75.6	76.4	75.9	78.4	79.6	81.4	83.0	85.3								113.3
LOC SCHENECTADY	200	76.7	74.1	76.3	75.1	76.1	76.4	79.3	80.6	82.1	84.2	86.8								114.3
DATE 12/5/76	250	77.7	77.0	78.8	78.6	79.3	80.3	81.6	82.3	82.9	84.7	85.6								115.4
RUN 20/A	315	80.4	79.1	80.6	79.4	79.9	80.6	81.1	81.4	82.4	83.7	85.0								115.4
TAPE	400	79.8	77.3	80.3	77.6	78.4	78.9	80.1	80.9	81.9	83.2	83.6								114.5
BAR 30.0 PC	500	78.3	78.1	83.8	78.9	79.6	82.1	83.1	83.8	83.4	83.5	83.3								116.1
(101385. N/M2)	630	78.6	79.8	85.4	81.1	82.4	83.9	85.8	85.8	85.4	84.2	82.8								117.9
TAMB 41. DEG F	800	84.3	82.8	86.8	82.9	84.6	85.4	87.1	86.9	86.9	85.2	84.6								119.8
(278. DEG K)	1000	78.9	80.1	83.3	81.7	83.4	85.4	87.3	87.4	87.1	85.9	82.8								116.9
TWET 38. DEG F	1250	76.9	77.4	80.1	81.7	83.7	84.9	86.8	86.9	86.9	85.8	82.8								116.4
(275. DEG K)	1600	74.2	76.9	79.1	80.5	81.7	83.8	84.1	84.4	83.9	82.9	81.8								116.2
RACT 3.64 GM/M3	2000	74.9	76.7	78.4	79.8	81.5	82.7	83.8	84.0	85.7	82.5	82.1								116.3
(.00364 KG/M3)	2500	74.2	76.4	78.1	80.1	81.3	82.3	83.1	83.8	85.2	86.8	84.1								115.9
NFA 7793. RPM	3150	72.9	75.2	76.6	78.6	80.8	83.3	86.3	84.6	86.4	81.3	85.1								116.6
(816. RAD/SEC)	4000	75.4	76.2	79.8	83.1	84.8	87.2	89.0	89.5	88.9	85.0	87.8								120.5
NFK 7932. RPM	5000	71.6	74.2	76.8	78.9	80.8	82.7	83.5	85.2	84.9	79.7	89.5								116.9
(830. RAD/SEC)	6300	70.5	72.8	75.0	77.3	78.4	80.7	80.5	82.1	82.4	77.7	92.1								110.4
NFD 8823. RPM	8000	71.2	72.7	74.3	76.6	78.4	81.0	82.8	84.1	84.8	79.7	93.4								117.9
(924. RAD/SEC)	10000	73.5	73.8	75.9	78.7	80.3	83.5	85.6	86.8	87.4	82.5	94.9								120.0
NO. OF BLADES 16	12500	74.0	74.9	77.0	80.5	82.2	85.0	87.2	89.0	90.4	85.4	95.7								121.9
FAN TIP SPEED	16000	74.3	73.3	75.7	78.7	80.6	83.4	85.8	88.5	89.2	83.2	94.3								121.8
886. FT/SEC	20000	77.0	74.8	77.6	80.0	82.4	85.7	88.2	90.7	91.0	85.9	91.7								122.4
	25000	79.1	76.8	78.1	80.8	83.1	85.8	88.4	91.2	92.2	87.0	90.8								123.4
	31500	79.3	76.2	78.7	82.1	84.5	84.9	89.2	91.0	91.4	86.0	89.9								124.3
	40000	80.1	74.9	78.1	80.1	83.2	85.6	88.7	89.3	89.7	85.1	84.7								126.2
	50000	82.6	74.7	78.5	77.5	79.7	81.8	84.8	84.7	84.8	81.3	81.8								122.3
	63000	88.8	76.5	79.3	78.3	77.8	77.8	79.5	79.3	79.0	78.7	77.9								123.8
	80000	89.5	75.3	79.0	75.4	76.3	76.6	77.2	76.6	76.8	76.9	75.8								125.3
OVERALL MEASURED																				
OVERALL CALCULATED		94.5	91.7	94.8	94.4	96.1	98.8	99.9	101.8	101.5	98.3	103.7								134.8
	PWL	108.9	102.5	106.7	106.8	107.8	108.5	110.9	111.8	111.8	108.7	113.2								

10dB high

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.6	49.6	53.3	51.2	52.0	52.4	51.9	51.1	53.0	54.9	58.4						
VEHICLE R-55	125	53.0	57.0	58.9	58.8	58.0	56.1	59.3	60.0	58.6	57.5	58.3						
CONFIG 10	160	51.6	52.4	54.1	53.8	54.6	54.8	56.0	56.4	56.6	56.1	54.9						
LOC SCHENECTADY	200	52.6	51.1	54.0	53.2	54.3	54.4	56.9	57.3	57.4	57.2	56.1						
DATE 12/5/74	250	53.7	54.0	56.4	56.6	57.9	59.3	59.1	58.9	58.0	57.8	54.9						
RUN 2014	315	56.1	55.9	58.3	57.3	57.9	58.5	58.5	57.8	57.4	56.4	54.8						
TAPE	400	55.5	54.0	57.0	55.4	55.3	56.7	57.4	57.2	56.8	55.0	52.8						
BAR 30.0 IN HG	500	51.9	54.7	01.2	56.6	57.5	59.8	60.3	59.9	58.2	55.9	53.7						
(01305. N/M2)	630	54.1	56.3	62.6	58.8	60.2	61.5	62.7	61.0	60.0	56.5	51.0						
TAMB 41. DEG F	800	59.7	59.2	63.7	60.4	63.3	62.9	64.0	62.9	61.4	57.2	52.4						
(278. DEG K)	1000	54.0	56.3	60.3	59.0	60.9	62.8	64.2	63.2	61.4	56.8	50.1						
TWET 35. DEG F	1250	51.9	53.4	58.9	59.0	61.1	62.2	63.3	62.6	61.0	56.6	49.0						
(275. DEG K)	1600	49.9	52.8	55.8	57.6	58.9	61.8	60.0	59.9	57.8	53.3	46.8						
HACT 3.64 GM/M3	2000	49.5	52.4	54.8	56.7	58.5	59.6	59.9	59.9	59.3	53.5	46.3						
(.00364 KG/M3)	2500	48.5	51.9	54.4	56.8	58.2	58.9	59.2	58.7	58.8	51.4	46.9						
NFA 7793. RPM	3150	46.9	50.4	52.6	55.1	57.4	59.7	60.1	59.3	59.4	51.5	0.2						
(816. RAD/SEC)	4000	46.9	52.9	55.4	59.2	61.8	63.2	64.4	63.8	61.3	54.4	5.8						
NFE 7932. RPM	5000	44.8	48.6	52.1	54.7	56.7	58.4	58.6	59.2	56.9	48.7	5.9						
(830. RAD/SEC)	6300	42.7	46.4	49.8	52.4	53.7	55.7	54.8	55.2	53.5	45.6	5.8						
NFD 8823. RPM	8000	42.0	45.1	47.7	50.5	52.6	55.8	56.0	55.9	54.4	45.5	5.2						
(924. RAD/SEC)	10000	42.4	44.3	47.7	51.1	52.9	55.9	57.2	56.6	54.9	45.6	5.7						
NO. OF BLADES 15	12500	42.1	43.0	47.0	50.7	52.7	55.1	56.4	56.4	54.8	44.9	4.7						
FAN TIP SPEED	16000	35.6	37.3	41.3	45.2	47.5	50.1	51.1	51.0	48.5	35.9	3.0						
889. FT/SEC	20000	32.3	33.1	36.2	41.0	44.5	47.3	48.4	48.2	43.7	30.1	1.0						
	25000	25.8	26.8	31.5	35.5	38.6	40.4	41.3	40.5	38.4	19.2	0.1						
	31500	13.2	15.6	21.6	26.9	29.9	31.6	31.4	28.5	28.7	0.4							
	40000			5.3	10.0	13.8	15.2	15.0	9.1									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		65.9	67.0	70.9	70.1	71.6	72.9	73.7	73.2	71.9	68.3	0.1						
PNDB		74.7	77.8	80.8	82.3	84.0	85.8	86.0	86.1	84.4	78.8	7.9						

PAGE 1 FULL SCALE DATA REPORT (PHASE I)

FULL SCALE PERFORMANCE (PASS 1) WITH 8 IN DEGRADED SCALE MOD. FAN

ACOUSTIC DATA (UNTREATED)

	FREQ	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	A	B	C	G	PWL
		80																												
		79																												
RADIAL 17. FT.		50																												
(5. IN)		100	69.5	66.9	72.6	74.7	73.4	73.2	69.4	66.7	68.2	71.3	73.6																	165.
VEHICLE	AMES	125	70.3	67.6	72.1	74.7	71.6	67.4	67.1	71.4	71.6	71.6	73.7																	164.
CONFIG	101	100	69.7	65.1	69.5	68.7	66.6	65.9	66.6	67.9	70.6	73.8	73.6																	162.
LOC	SCHENECTADY	200	61.5	64.9	66.4	64.2	67.5	67.9	70.1	70.4	71.7	74.1	74.1																	164.
DATE	12/5/74	250	69.3	69.9	70.4	70.1	70.9	71.4	72.1	72.6	73.2	74.1	74.1																	165.
RUN	29/21	315	67.8	71.1	71.6	71.9	71.9	72.7	72.3	72.1	73.5	74.1	73.6																	160.
TAPE		400	68.3	69.5	69.4	70.2	70.4	70.5	71.0	71.9	72.5	73.5	73.1																	165.
BAR	30.0 IN HG	500	63.3	69.6	72.1	71.2	71.6	73.2	73.1	73.7	75.6	75.3	73.9																	167.
(0135.	M/SEC)	630	71.4	72.6	73.3	73.7	73.4	74.9	74.6	74.2	74.3	74.1	74.5																	170.
TAMB	41. DEG F	800	75.1	75.4	75.9	74.4	77.5	79.7	80.8	81.6	80.7	80.9	77.4																	172.
(278.	DEG K)	1000	71.7	72.4	72.5	75.2	77.4	77.2	78.4	80.2	83.0	82.9	78.9																	173.
TSET	37. DEG F	1250	74.7	75.2	73.1	73.3	72.2	74.8	75.1	75.9	75.3	74.1	73.9																	170.
(276.	DEG K)	1600	69.7	70.2	73.1	74.5	75.7	77.2	78.1	78.4	77.9	77.9	73.9																	172.
MACT	4.66 GM/M3	2000	61.5	66.5	67.9	72.4	73.7	72.3	73.6	73.4	75.5	75.4	69.6																	166.
(0.00406	KG/M3)	2500	65.9	67.5	69.1	71.1	73.3	74.3	75.3	75.4	76.7	76.9	70.9																	168.
NFA	5443. RPM	3150	68.7	66.2	67.4	68.1	71.8	73.9	76.3	76.1	76.6	77.4	71.9																	168.
(570.	RAD/SEC)	4000	65.4	66.7	69.3	70.9	72.9	74.5	77.5	77.5	78.7	80.1	73.5																	169.
NFK	5540. RPM	5000	62.1	63.7	64.4	67.1	68.7	71.4	75.7	74.7	75.4	73.3	66.5																	166.
(580.	RAD/SEC)	6300	60.9	62.3	63.2	66.8	68.9	69.2	76.9	71.5	72.9	71.5	64.3																	165.
NFC	8923. RPM	8000	61.8	63.4	64.8	68.3	68.3	71.1	78.0	76.7	77.0	75.7	71.1																	169.
(934.	RAD/SEC)	10000	62.9	63.8	65.3	70.3	69.9	73.2	81.2	78.3	78.6	78.3	73.9																	170.
NO. OF BLADES	15	12500	65.6	65.7	67.4	72.6	72.1	74.1	82.3	79.8	81.6	80.6	76.4																	172.
FAN TIP SPEED		16000	67.2	64.2	65.1	72.8	76.3	73.8	81.9	79.1	81.4	79.0	76.0																	172.
475.	FT/SEC	20000	64.2	64.6	66.6	74.2	72.4	76.2	81.9	81.2	82.1	80.5	75.5																	173.
		25000	65.7	65.6	66.7	74.5	72.2	76.2	81.8	81.5	82.3	79.7	74.2																	175.
		31500	65.0	65.8	67.3	75.3	74.9	78.4	81.7	82.8	83.6	81.3	76.3																	170.2
		40000	65.1	64.3	65.6	68.6	71.6	75.6	78.4	79.7	81.4	79.7	69.9																	166.
		50000	67.0	64.6	66.8	66.4	67.7	71.6	74.7	74.4	75.5	74.9	66.2																	172.
		63000	68.2	65.2	68.2	65.6	66.4	67.3	69.8	68.2	68.2	66.7	63.3																	170.
		80000	71.2	67.5	70.1	66.3	67.3	67.9	68.2	67.6	66.8	66.5	65.2																	174.
OVERALL MEASURED																														
OVERALL CALCULATED			83.3	82.7	85.3	86.6	90.4	92.9	94.3	93.1	93.6	93.2	88.6																	180.
	PWL		91.9	92.9	94.8	97.7	100.3	102.8	103.8	101.9	103.0	101.6	98.4																	

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	FREQ.	63	125	250	500	1000	2000	4000	8000	A	B	C	D
SIDELINE DIS. FT.	63												
(60.96 M)	100	41.9	44.2	50.6	53.0	53.6	51.4	47.2	41.5	43.6	42.9	42.3	
VEHICLE R===	125	46.8	48.8	50.8	49.0	47.7	45.6	44.8	47.3	46.2	44.9	43.6	
CONFIG INF	160	39.0	42.2	43.4	45.9	44.9	44.0	47.0	46.7	46.	47.0	47.1	
LOC SCHIRECTADY	200	41.6	41.3	44.1	44.2	47.6	48.9	47.7	47.3	47.6	47.1	47.4	
DATE 12/5/74	250	44.2	45.6	48.0	47.1	47.9	45.3	44.6	44.5	47.3	47.9	47.2	
RUN 29/21	315	45.6	48.2	49.1	49.8	49.9	51.5	48.7	47.6	47.8	48.4	48.5	
TAPE	400	44.0	46.4	48.0	48.0	48.3	47.7	48.1	47.3	47.2	46.4	47.0	
BAR 30.1 HG	500	43.9	46.3	47.8	48.3	49.5	51.9	52.3	51.9	51.2	47.9	48.3	
(101.9 K/M2)	630	46.1	49.2	51.1	51.3	52.2	54.5	55.7	54.3	53.8	51.3	49.8	
TAMB 41. DEG F	800	50.4	51.0	53.0	54.9	55.3	57.2	57.5	56.7	56.5	54.4	49.2	
(278. DEG K)	1000	47.1	48.6	49.8	52.4	54.9	57.5	57.7	57.5	57.3	54.4	49.8	
T-RT 37. DEG F	1250	49.7	51.2	52.1	54.3	56.6	58.6	60.2	61.8	58.3	57.7	52.7	
(276. DEG K)	1600	44.4	46.1	49.4	53.5	55.7	57.3	58.9	58.5	58.5	58.2	51.8	
HAC) 4.66 GM/M3	2000	39.5	42.1	46.3	48.5	47.9	48.9	49.9	48.7	48.1	48.3	39.9	
(.00466 KG/M3)	2500	43.3	43.0	45.4	47.8	50.1	48.9	51.4	51.4	50.1	47.5	39.7	
NFA 5443. RPM	3150	38.6	41.4	43.3	45.4	47.6	50.2	50.1	50.4	51.1	48.4	39.9	
(570. RAD/SEC)	4000	38.8	41.4	43.8	46.0	47.9	51.5	52.8	51.5	51.1	49.5	37.5	
NFK 5543. RPM	5000	39.2	38.1	46.0	48.0	44.7	47.2	50.8	49.7	47.8	42.3	31.8	
(580. RAD/SEC)	6300	33.2	35.8	37.8	41.1	48.1	44.2	51.3	42.8	46.6	36.3	27.9	
NFD 8823. RPM	8000	32.7	35.3	36.2	42.0	42.2	45.9	52.9	47.6	44.9	41.5	28.9	
(924. RAD/SEC)	10000	31.8	34.4	37.1	42.4	42.5	45.6	52.4	47.6	47.1	41.1	28.4	
NO. OF BLADES 15	12500	31.7	33.2	36.9	42.6	42.5	44.3	51.5	47.3	46.6	38.5	28.4	
FAN TIP SPEED	16000	24.6	28.2	30.7	38.4	37.1	41.3	47.2	45.2	46.7	31.7	17.6	
475. FT/SEC	20000	19.6	23.1	27.2	36.0	36.5	37.8	43.1	38.7	38.4	24.7	8.7	
	25000	12.4	18.4	20.1	29.4	28.2	31.0	32.2	29.8	29.5	11.9		
	31500		5.2	9.8	17.2	20.4	22.0	23.9	21.2	13.2			
	40000					2.3	5.4	4.7					
	50000												
	63000												
	80000												
OVERALL CALCULATED		57.6	59.2	61.7	64.4	67.3	65.4	66.6	67.6	65.2	62.9	55.2	
	PNDB	66.0	68.1	70.9	74.3	77.2	79.3	79.6	78.8	78.1	73.3	63.4	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

TAPE: MAIN = NAME 12 MAY 0 HR 13.9

FUEL SUPPLY PRESSURE LEVELS (30. PSIA TO 70 PERCENT DES. NOM. TAT)

	FREQ	62. (0.0)	64. (1.6)	66. (3.2)	68. (4.8)	70. (6.4)	72. (8.0)	74. (9.6)	76. (11.2)	78. (12.8)	80. (14.4)	82. (16.0)	84. (17.6)	86.	88.	90.	92.	94.	AVG
	63																		
RADIAL 17. FT.	SC																		
(5. M)	100	76.0	77.1	74.4	72.4	69.4	71.4	75.9	67.7	72.2	74.1	77.9							167.6
VEHICLE RUSS	125	71.5	69.1	72.4	69.9	72.6	75.4	75.1	72.4	73.7	74.8	77.1							168.5
CONFIG 10R	150	67.3	69.9	69.6	67.9	69.1	69.4	71.1	72.7	74.5	74.8	78.1							168.3
LOC SCHENECTADY	200	66.1	67.9	68.4	68.4	70.4	72.6	72.5	74.9	75.5	77.8	79.3							167.6
DATE 12/5/74	250	70.0	70.9	72.6	72.4	72.9	73.1	74.3	74.6	75.7	77.1	77.6							168.2
RUN 29/22	315	73.6	74.6	75.1	75.3	76.1	75.9	76.9	75.8	76.6	77.8	77.8							168.9
TAPE	400	71.6	72.1	72.1	72.9	72.9	73.7	74.4	74.5	74.8	76.8	76.8							168.3
BAR 30.0 HG	500	71.6	71.4	72.1	72.9	73.9	75.4	77.1	77.3	77.6	78.3	78.6							169.7
(101305. N/M2)	630	74.6	74.9	76.1	76.4	78.2	79.7	81.6	81.4	81.6	81.5	77.1							113.2
TAMB 42. DEG F	800	75.3	76.2	77.1	77.3	77.4	81.4	82.1	82.2	82.6	81.4	77.6							114.4
(279. DEG K)	1000	74.4	74.2	75.1	77.2	77.5	81.2	83.1	83.3	84.5	83.5	77.4							113.2
T-ET 37. DEG F	1250	72.9	73.3	75.6	77.5	80.7	83.6	84.3	84.4	85.2	84.8	77.4							116.3
(276. DEG K)	1600	77.2	78.2	81.4	84.0	87.8	88.7	88.3	86.6	83.2	84.6	78.6							119.6
MACT 4.36 GM/M3	2000	68.7	70.3	71.9	73.1	74.5	75.9	76.8	77.1	76.5	77.8	72.6							109.4
(.00434 KG/M3)	2500	68.7	70.3	71.6	73.1	75.3	77.3	77.3	77.4	80.6	77.3	72.6							110.8
NFA 6225. RPM	3150	69.7	69.5	71.1	72.9	75.1	77.5	80.5	81.3	82.6	83.9	77.1							113.1
(652. RAD/SEC)	4000	69.5	71.0	72.6	74.6	77.3	80.2	81.5	82.1	82.6	82.6	76.6							113.6
NFK 6330. RPM	5000	69.6	66.9	69.0	70.9	73.3	75.4	78.2	80.9	79.8	78.1	72.2							110.0
(663. RAD/SEC)	6300	69.9	65.3	66.7	68.3	70.9	73.2	76.2	75.0	74.2	73.0	68.8							107.0
NFB 8823. RPM	8000	64.1	63.7	67.3	70.3	71.6	74.6	77.2	80.0	80.8	77.8	73.9							110.5
(924. RAD/SEC)	10000	65.4	67.1	68.6	72.6	73.7	77.6	81.4	82.0	83.7	82.3	75.8							113.2
NO. OF BLADES 15	12500	67.7	68.3	70.2	73.7	75.6	78.4	82.9	84.1	85.6	82.7	77.3							115.2
FAN TIP SPEED	16000	65.8	66.3	67.9	72.6	74.1	77.4	82.5	83.5	84.7	81.5	76.3							114.7
543. FT/SEC	20000	66.6	66.2	69.1	75.3	75.5	79.6	84.5	84.3	84.1	82.8	77.8							116.6
	25000	66.7	67.9	69.4	76.2	78.4	79.2	83.7	84.3	84.6	82.0	77.0							116.9
	31500	67.1	68.3	70.5	76.8	78.5	81.9	85.0	86.5	87.2	84.1	78.6							119.0
	40000	65.1	66.4	68.6	73.3	75.6	79.5	82.9	83.9	85.1	82.4	72.8							116.7
	50000	67.3	65.2	67.4	68.7	70.8	74.4	78.1	76.3	74.4	77.4	67.3							115.3
	63000	68.8	64.7	64.2	65.9	67.4	69.3	72.1	71.0	72.8	70.5	64.3							112.4
	80000	70.9	68.0	69.4	66.5	66.8	67.8	68.1	66.8	66.5	66.4	65.0							114.7
OVERALL MEASURED																			
OVERALL CALCULATED		65.9	66.5	67.4	69.8	71.8	73.9	75.8	76.2	76.8	77.2	72.8							120.9
	PRTF	96.1	97.2	99.1	101.1	103.4	105.2	106.0	105.7	106.2	106.5	101.9							

FULL SCALE DATA SECTION

MODEL SOUND PRESSURE LEVELS (DB, RE 0.0002 MICROBAR)

	FREQ.	53.	64.	71.	81.	91.	101.	111.	122.	130.	141.	150.	160.	170.	180.	190.	200.
	50																
	63																
SIDELINE 200. FT.	80																
(60.96 M)	100	52.5	54.8	52.3	57.7	47.8	48.7	47.7	44.6	47.8	46.5	47.8					
VEHICLE ROSS	125	47.8	46.3	50.2	48.1	51.3	48.6	47.8	49.3	49.2	46.2	46.9					
CONFIG 10F	160	43.4	46.0	46.4	47.1	47.4	47.5	48.7	49.4	48.9	49.8	47.6					
LOC SCHENECTADY	200	42.8	44.9	46.1	47.5	49.6	50.7	50.4	51.6	50.7	50.9	48.7					
DATE 12/5/74	250	46.0	47.6	50.2	50.4	51.0	51.3	51.6	51.5	50.6	50.2	48.7					
RUN 29/22	315	48.9	51.5	52.6	52.1	54.2	53.8	53.7	52.1	51.0	50.3	48.9					
TAPE	400	46.3	48.9	49.6	51.0	50.6	51.4	51.0	51.3	50.9	49.4	48.5					
BAR 30.0 MB	500	46.2	48.0	49.5	50.7	51.7	53.1	54.3	54.2	52.7	51.0	48.9					
(.01305. P/M2)	630	50.1	51.4	53.4	54.1	56.9	57.3	58.7	57.5	55.6	52.4	49.3					
TAPS 42. DEG F	800	52.2	53.3	54.2	55.5	57.0	57.9	58.0	56.7	54.4	53.0	49.7					
(279. DEG K)	1000	49.6	51.1	52.1	54.6	57.2	58.1	59.0	59.8	58.7	56.4	52.9					
T-ET 37. DEG F	1250	47.8	50.2	52.5	56.8	59.1	60.2	61.0	60.1	59.3	57.2	54.5					
(276. DEG K)	1600	52.0	54.1	56.0	61.1	64.2	65.0	64.8	62.4	57.1	56.2	49.4					
MACT 4.3 CM/MB	2000	43.2	45.6	48.3	50.0	51.5	52.9	53.1	52.4	51.6	48.8	39.1					
(.00430 KG/M3)	2500	43.0	46.3	47.9	49.9	52.1	53.9	53.4	52.4	53.4	49.5	38.4					
NFA 6225. RPM	3150	42.7	44.7	47.1	48.4	52.4	54.9	56.4	56.1	55.5	54.1	42.2					
(652. RAD/SEC)	4000	43.1	45.7	48.1	50.7	53.2	56.2	56.0	56.3	54.4	51.9	41.0					
NFK 6330. RPM	5000	38.7	41.4	44.3	46.7	48.9	51.2	53.3	53.9	52.0	48.1	35.6					
(663. RAD/SEC)	6300	35.2	38.0	41.3	44.4	46.1	48.2	50.5	48.2	47.3	40.4	30.4					
NFD 6823. RPM	8000	33.3	36.1	40.7	44.3	45.7	48.5	51.4	51.9	50.4	43.6	32.5					
(924. RAD/SEC)	10000	34.3	37.7	40.4	45.1	46.3	49.4	53.4	52.1	51.1	43.4	30.7					
NO. OF BLADES 15	12500	33.8	36.4	39.7	43.0	46.1	48.0	52.1	51.6	50.0	41.9	26.4					
FAN TIP SPEED	16000	27.3	30.3	33.6	40.2	42.9	43.6	47.8	46.6	44.0	34.2	15.9					
543. FT/SEC.	20000	21.9	25.5	29.8	37.1	37.6	40.7	44.7	41.8	38.8	27.1	5.1					
	25000	13.4	18.7	22.9	31.1	31.8	34.0	36.6	33.6	28.7	14.1						
	31500	1.0	7.7	13.3	21.7	23.9	26.6	27.1	24.0	16.4							
	40000				3.2	6.3	9.1	9.1	3.8								
	50000																
	63000																
	80000																
OVERALL CALCULATED		60.7	62.4	64.2	66.0	68.2	69.8	70.1	69.0	67.4	65.3	58.8					
	PNDB	70.3	72.5	75.4	77.8	80.2	81.9	82.1	80.7	79.2	76.7	68.8					

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PAGE 1 FULL SCALE DATA CORRECTED TO STD

MODEL SOUND PRESSURE LEVELS (DB, REF TO 2E-5 N/M**2, 1/3 OCTAVE BAND, CENTER FREQ, HZ)

		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	OASL
		(1.0E2)	(1.3E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	(1.6E2)	
RADIAL 17. FT.		69.2	74.4	73.5	75.7	77.1	76.2	76.4	76.9	74.2	78.3	81.9													168.3
VEHICLE CONFIG	100	69.5	71.4	71.1	71.7	72.1	72.4	74.6	75.4	77.8	79.5	71.4													164.3
LCC SCHEDULE	200	69.3	72.1	70.3	71.2	72.9	75.1	75.9	77.1	76.7	81.5	83.1													171.8
DATE 12/5/74	250	70.8	74.4	73.6	73.4	76.1	76.1	74.3	77.9	79.2	81.1	81.6													181.7
RUN 29/23	315	72.2	75.5	76.6	76.7	77.4	77.4	78.3	78.1	79.6	81.1	81.3													192.3
TAPE	400	71.1	74.4	73.3	73.2	75.1	75.7	77.1	77.1	79.6	80.1	81.3													190.8
BAR 30.0 HG	500	73.3	74.1	74.6	74.2	77.4	78.4	80.1	80.2	80.5	80.5	79.8													194.9
(1305. N/M2)	630	70.6	76.9	75.1	77.9	80.4	81.4	83.4	83.2	83.6	82.6	82.1													199.2
TAMB 42. DEG F	800	73.3	73.4	73.1	76.2	81.5	83.8	84.3	84.7	84.2	84.3	84.1													198.4
(279. DEG K)	1000	75.3	77.4	77.4	79.4	81.5	83.7	85.3	85.4	85.7	84.8	79.8													197.8
TWET 37. DEG F	1250	75.2	75.4	77.4	80.7	81.9	83.5	85.1	84.9	85.7	84.4	79.9													196.9
(276. DEG K)	1600	74.3	74.7	78.6	81.9	83.5	84.7	84.3	83.4	83.8	83.9	80.4													198.7
WACT 4.36 KG/SEC	2000	71.3	73.7	75.4	77.3	80.2	81.6	81.1	81.9	82.5	82.1	79.8													194.6
(9.6043 LB/SEC)	2500	71.7	73.5	74.4	76.6	78.3	79.5	80.1	80.4	82.5	79.7	79.9													192.8
NFA 6998. RPM	3150	71.3	72.2	74.4	76.4	78.8	81.3	83.8	83.6	84.5	81.7	77.6													195.4
(733. RAD/SEC)	4000	73.4	75.2	76.3	78.1	81.8	84.8	85.8	85.5	85.7	84.3	79.8													197.1
NFK 7114. RPM	5000	69.1	72.3	72.8	74.6	77.5	78.7	81.9	82.5	81.8	78.3	74.5													193.8
(745. RAD/SEC)	6300	67.2	68.5	70.5	73.1	71.6	77.2	78.8	78.5	78.6	75.8	71.8													186.2
NFD 8823. RPM	8000	67.1	69.3	70.3	73.5	75.3	78.4	81.5	82.3	81.1	79.3	75.4													193.1
(924. RAD/SEC)	10000	69.2	69.6	72.1	75.4	77.2	81.5	84.5	85.5	85.5	82.1	77.8													195.6
NO. OF BLADES 15	12500	72.2	71.3	73.5	76.7	79.1	81.7	84.4	84.6	84.8	84.7	79.6													196.1
FAN TIP SPEED	16000	68.5	69.3	71.7	76.1	77.6	80.4	84.3	84.2	84.7	83.0	78.1													192.4
811. FT/SEC	20000	69.1	70.4	72.9	77.8	79.6	82.5	85.2	84.8	84.4	84.4	80.8													194.1
	25000	67.2	70.4	72.7	78.6	77.4	82.2	84.7	83.4	83.4	82.7	79.2													190.9
	31500	69.6	71.5	74.5	80.3	82.8	84.7	89.8	89.8	89.9	88.3	79.1													202.2
	40000	68.3	68.8	71.6	77.4	79.3	82.8	86.9	87.2	87.4	86.4	79.1													191.8
	50000	68.1	65.9	69.2	75.3	71.5	77.2	82.9	81.5	82.4	78.9	77.1													190.9
	63000	69.3	64.7	68.2	74.4	69.2	71.3	76.8	74.8	74.5	73.6	74.4													185.8
	80000	71.9	68.2	69.8	86.7	87.3	87.6	79.6	87.8	87.7	87.5	85.8													199.4
OVERALL MEASURED																									
OVERALL CALCULATED		87.3	88.2	89.4	91.7	93.4	96.1	98.5	98.4	99.2	97.9	94.3													211.3
PWL		69.3	99.3	100.4	102.7	104.9	106.7	108.5	108.3	108.9	107.8	104.8													

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OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SCALE PRESSURE LEVELS (DB, RE: 0.2 PERCENT REF. MIN. FAIR)

	FREQ	6a	7a	8a	9a	10a	11a	12a	13a	14a	15a	1b	2b	3b	4b	5b	6b
	25																
	63																
SIDELINE 295. FT.	80																
(60.96 M)	100	49.4	51.7	51.6	49.3	48.5	48.4	48.2	47.9	49.9	51.5	51.9					
VEHICLE RPMS	125	52.8	53.1	56.0	54.5	52.7	51.6	51.3	53.9	53.0	52.7	51.6					
COMPIG 140	160	49.7	49.5	49.9	49.3	50.4	50.5	52.2	52.2	52.4	52.9	50.9					
LOC SCHEDULED	200	48.8	47.1	46.6	48.7	51.1	53.2	53.4	53.8	54.0	54.5	57.4					
DATE 12/5/74	250	48.7	51.3	51.2	53.4	54.9	54.1	53.8	54.5	54.3	54.3	51.9					
RUN 29/23	315	50.9	53.5	54.1	54.6	55.4	55.0	55.7	54.6	54.0	53.0	50.8					
TAPE	400	48.8	51.1	51.3	52.7	53.1	53.4	53.4	53.5	52.9	52.7	47.9					
BAR 30.0 IN	500	48.9	50.3	52.8	53.7	55.2	56.1	57.3	56.4	55.2	53.2	48.8					
(61350. N/M2)	630	50.1	53.4	55.4	56.8	58.2	59.0	60.4	59.2	57.8	57.0	49.9					
TAMB 42. DEG F	800	54.2	54.9	56.2	57.2	58.7	60.9	61.3	60.1	58.2	55.9	48.7					
(279. DEG K)	1000	51.1	53.5	54.3	56.8	57.2	61.1	62.2	61.3	60.1	56.4	47.1					
T-CT 37. DEG F	1250	50.2	51.5	54.2	57.5	59.3	60.7	61.8	60.5	58.8	56.9	47.8					
(276. DEG K)	1600	49.9	50.8	55.3	57.1	60.7	61.8	62.8	59.8	58.6	56.9	47.1					
HACT 4.36 CM/M	2000	48.5	49.4	52.3	56.7	57.3	57.9	57.4	56.2	56.1	51.1	42.8					
(.00436 KG/M3)	2500	48.8	48.3	50.7	53.6	54.9	56.2	56.2	55.4	55.6	50.3	41.7					
MFA 6998. RPM	3150	48.2	47.4	50.4	52.9	53.4	57.1	56.8	56.3	57.6	52.1	42.7					
(733. RAD/SEC)	4000	48.9	48.9	51.9	52.2	53.9	60.0	61.8	58.6	58.1	53.3	43.8					
WFK 7110. RPM	5000	48.2	49.4	48.1	50.4	53.4	54.4	57.0	54.4	54.6	47.3	37.9					
(745. RAD/SEC)	6300	37.4	42.1	45.3	47.4	47.1	52.3	53.3	51.7	51.6	43.5	33.6					
NFD 8023. RPM	8000	37.2	41.4	44.2	47.5	47.5	50.2	54.7	54.1	52.6	45.1	34.1					
(924. RAD/SEC)	10000	37.1	40.2	43.9	47.4	49.4	52.9	56.1	54.6	53.4	45.4	33.2					
NO. OF BLADES 19	12500	36.3	39.4	43.9	46.8	47.4	51.8	55.6	54.1	53.6	43.5	32.6					
FAN TIP SPEED	16000	29.7	33.3	37.3	42.7	44.4	47.2	51.6	49.2	46.1	35.7	19.7					
8411. FT/SEC	20000	24.4	29.2	33.5	38.6	41.1	44.2	48.4	46.6	42.1	29.3	7.6					
	25000	15.7	21.2	26.1	33.9	38.3	37.8	41.6	37.1	32.1	18.9						
	31500	3.5	10.9	17.3	25.2	27.4	29.3	31.1	22.2	18.4							
	40000				7.7	13.3	12.4	13.1	7.0								
	50000																
	63000																
	80000																
OVERALL CALCULATED		62.1	64.9	66.1	67.4	69.3	70.6	71.5	70.4	69.5	66.4	61.3					
PNDB		71.3	74.5	76.6	79.0	81.3	83.0	84.1	82.9	81.7	77.4	69.1					

PAGE 1 FULL SCALE TEST SECTION REPORT

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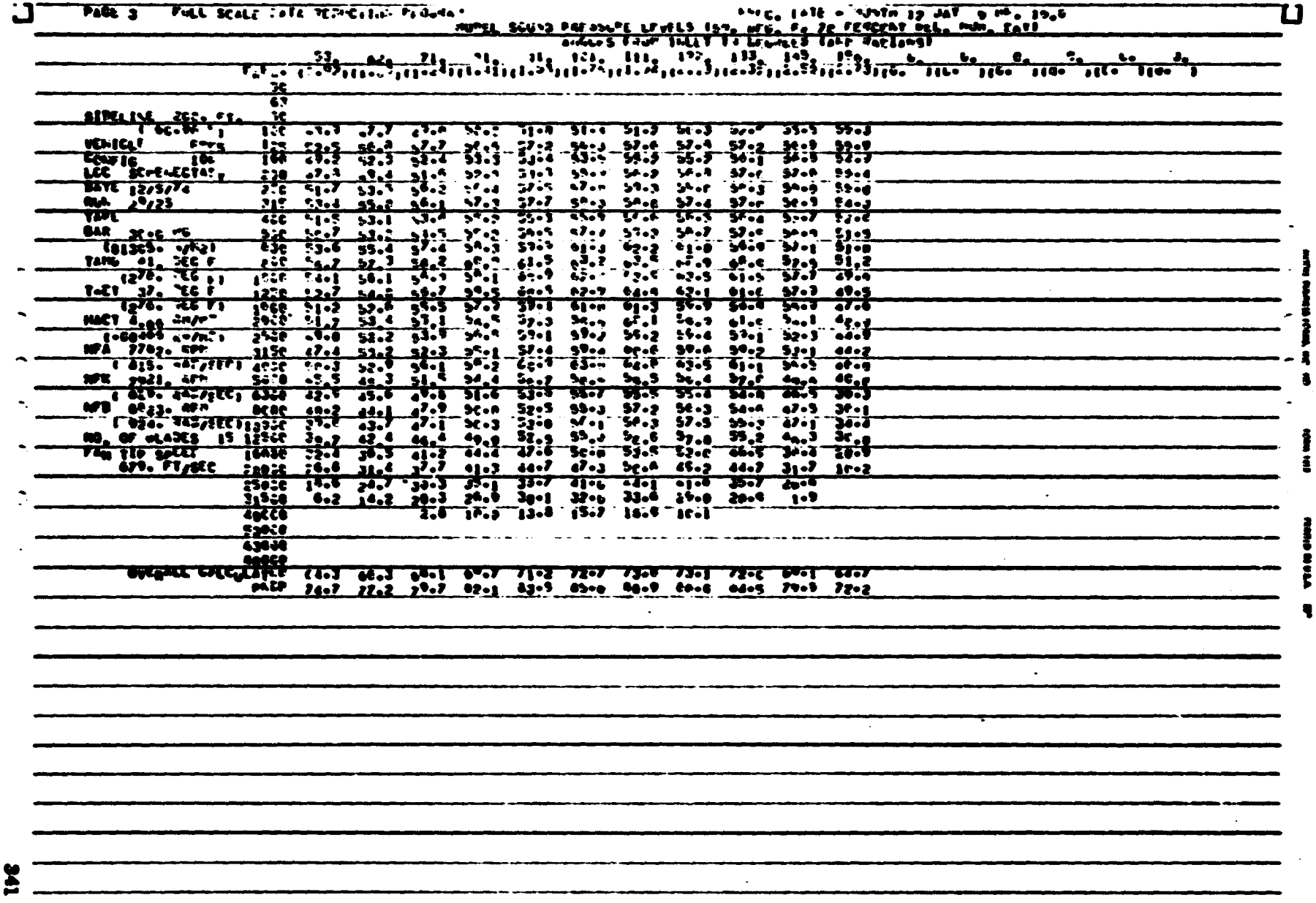
PAGE 3 FULL SCALE DATA RECORDED PRODUCT

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PAGE 1 FULL SCALE DATA [illegible]

[illegible] SOUND PRESSURE LEVELS (DB re. 2E-5 NEWTON/SQ. METER)

	FREQ (HZ)	63.	80.	100.	125.	160.	200.	250.	315.	400.	500.	630.	800.	1000.	1250.	1600.	2000.	2500.	3150.	4000.	5000.	6300.	8000.	PNL
RADIAL 17. FT.																								
(5. FT	160	69.5	70.4	71.9	71.7	72.4	77.2	77.4	78.4	77.6	82.1	85.4												110.2
VEHICLE SPEED	125	76.2	79.6	79.9	77.4	78.3	78.2	79.9	81.0	81.7	83.5	86.1												114.2
CONFIG 12F	195	75.2	74.9	75.0	76.2	76.1	76.1	77.4	77.2	81.7	83.4	85.8												114.5
LOC SCHENECTADY	250	71.8	73.4	71.7	73.7	75.5	77.9	77.6	81.1	81.7	84.4	86.1												113.2
DATE 12/5/74	290	75.0	74.5	77.6	77.2	77.4	77.4	81.0	82.4	83.2	84.1	85.2												115.4
RUN 20/25	315	77.2	78.1	78.6	78.4	78.5	80.6	80.6	82.9	82.2	84.1	85.1												114.5
TAPE	405	75.3	76.4	76.4	77.4	77.4	77.2	78.4	81.1	81.5	83.1	84.1												113.2
BAR 29.0 IN	500	75.1	76.2	77.1	77.6	78.5	80.2	82.1	82.4	82.2	83.9	84.9												114.7
(913C9. N/M2)	630	73.1	78.9	80.1	80.7	82.2	81.7	78.1	84.9	85.2	84.9	82.9												117.2
TAMB 41. DEG F	810	81.4	82.2	81.1	82.1	83.9	85.7	86.6	86.9	84.5	85.4	84.4												118.2
(278. DEG C)	1000	78.9	79.9	79.9	81.7	83.4	85.1	87.1	87.5	87.2	86.9	87.1												118.2
TWET 37. DEG F	1250	77.7	77.9	79.4	82.2	83.4	85.7	87.3	87.6	87.6	86.4	87.4												118.5
(270. DEG C)	1600	74.4	76.7	78.9	80.8	82.2	84.9	86.8	86.4	86.4	86.6	86.9												116.5
MACH 4.96 SW/NT	2000	77.2	77.7	78.6	79.5	80.7	81.9	83.8	84.6	84.2	82.1	82.6												117.3
(1.00406 SW/M)	2500	74.7	76.7	77.4	80.1	81.3	82.3	83.1	84.4	85.7	81.7	79.1												116.8
NFA 7702. RPM	3150	73.4	75.2	76.4	77.5	78.3	83.3	84.8	84.5	86.2	82.2	79.1												116.5
(815. REV/SEC)	4000	75.5	78.2	80.6	80.1	84.5	87.3	89.5	85.3	86.7	84.1	82.8												120.2
NFK 7021. RPM	5000	77.3	73.9	76.3	78.6	80.7	84.7	84.4	85.4	84.8	85.5	77.5												116.6
(829. REV/SEC)	6300	78.7	72.5	74.5	77.5	78.8	81.7	81.2	82.3	82.8	79.5	77.8												113.8
NFB 8923. RPM	8000	69.3	71.7	74.5	76.8	78.3	81.3	84.8	84.5	85.8	81.7	77.8												113.8
(926. REV/SEC)	10000	73.9	73.3	75.3	77.8	83.4	84.7	87.7	87.5	87.5	84.3	79.6												116.2
NO. OF BLADES 1=	12500	72.6	74.2	76.9	79.5	82.3	85.1	88.8	90.3	90.8	87.1	81.9												120.5
TIP SPEED	16000	74.9	72.5	75.6	77.8	82.3	83.3	87.2	88.9	89.8	85.7	81.2												120.2
679. FT/SEC	20000	71.5	72.8	77.1	79.5	82.4	85.7	87.4	91.7	92.1	87.5	83.8												122.8
	25000	73.8	73.5	76.9	80.2	83.4	86.2	91.2	92.2	92.6	88.5	82.5												124.1
	31500	72.3	74.8	77.5	80.1	84.7	87.4	91.5	91.5	91.7	87.5	81.8												124.8
	40000	70.6	72.5	75.8	80.1	83.1	86.1	90.6	90.2	90.9	86.5	77.8												120.5
	50000	69.7	68.8	72.8	78.4	78.9	81.5	86.2	86.8	85.3	81.1	72.2												122.8
	63000	69.2	68.2	69.8	75.1	76.4	75.3	84.3	77.5	77.7	76.5	66.8												120.1
	80000	71.9	68.8	70.1	68.5	66.3	67.4	74.2	69.5	76.9	73.1	65.2												117.1
OVERALL MEASURED																								
OVERALL CALCULATED		69.8	90.7	92.2	94.0	95.8	98.0	101.1	101.5	101.9	99.5	97.2												130.1
	PNLT	110.9	102.2	103.9	104.8	107.4	108.8	111.3	111.5	111.7	109.2	107.8												



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PAGE 1 FULL SCALE [illegible] TEST, [illegible] = MONDAY 12 MAY 9 YR. 19.[illegible]

WHEEL SPEED SENSOR LEVELS [illegible] SEC, 0 TO [illegible] DEL. MPH, EACH

SCALE FROM EACH [illegible] [illegible]

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PAGE, DATE = 20:17:39 12 JAN 0 HR. 19.6

NOISE 30.00 PNDB SPL LEVELS (SP, DEG, 6, 73 PERCENT DECR. NOR. PAT)

SIDELINE 200. FT.
(60.96 M)
VEHICLE R-99
CONFIG 16R
LOC SCHENECTADY
DATE 12/5/74
RUN 29/29
TAPE
BAR 30.0 HG
(01305. M/M2)
TAPR 42. DEG F
(279. DEG K)
T-ET 37. DEG F
(276. DEG K)
HACT 0.36 GM/M3
(.00436 KG/M3)
NFA 5640. RPM
(590. RAD/SEC)
NFK 5531. RPM
(579. RAD/SEC)
NFS 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
475. FT/SEC

FREQ	53 (0.76)	64 (1.02)	77 (1.24)	81 (1.41)	91 (1.55)	101 (1.76)	111 (1.94)	122 (2.13)	134 (2.35)	145 (2.52)	159 (2.73)	6. (110.	8. (110.	0. (110.	0. (110.	30. (110.	45. (110.
63																	
80																	
100	41.7	44.2	50.6	52.7	53.0	51.7	47.2	41.6	44.3	44.8	49.5						
125	47.0	44.3	42.5	46.1	50.9	49.6	45.3	47.8	44.7	44.4	43.6						
160	45.4	42.5	43.7	49.5	44.7	44.0	45.5	45.7	45.8	45.8	43.1						
200	42.3	41.3	43.0	43.5	45.1	46.7	47.9	47.6	46.7	47.5	44.2						
250	44.3	45.5	46.2	48.1	47.9	49.6	50.6	49.2	46.1	46.7	43.2						
315	44.9	47.7	49.1	49.3	47.9	49.9	47.9	46.4	47.2	46.1	44.3						
400	44.0	46.4	46.1	47.7	48.1	48.9	48.4	47.0	47.4	46.2	41.5						
500	44.2	46.3	47.5	48.9	49.2	51.1	50.5	51.7	50.5	49.3	42.0						
630	47.3	48.9	51.1	51.3	50.2	54.5	55.7	54.5	52.6	50.6	41.9						
800	50.9	51.8	53.7	53.5	51.5	57.4	57.5	56.2	54.7	52.1	42.3						
1000	49.8	48.9	49.8	52.1	54.9	57.1	57.9	58.0	57.3	55.2	47.4						
1250	50.7	52.3	55.7	60.5	61.3	60.9	65.8	62.1	58.8	58.7	49.1						
1600	45.6	46.3	49.0	52.2	54.9	59.0	58.4	55.4	52.1	51.7	39.6						
2000	39.2	42.1	46.3	45.7	47.9	45.4	49.4	48.9	48.9	48.8	35.1						
2500	40.0	43.5	45.4	47.4	49.6	50.7	50.9	50.4	52.6	48.0	36.4						
3150	38.7	41.2	43.4	45.4	47.9	49.8	51.9	51.3	50.7	49.1	36.7						
4000	39.1	41.7	43.6	46.4	47.0	51.0	52.6	51.5	51.6	49.3	37.0						
5000	38.0	39.2	40.3	42.4	45.2	46.7	49.3	48.7	47.7	42.8	31.6						
6300	35.4	35.6	36.8	38.6	41.5	44.2	47.0	44.4	44.0	39.5	27.4						
8000	32.5	33.6	36.0	39.5	42.2	44.5	47.4	49.1	46.6	42.1	29.6						
10000	32.3	34.7	37.4	38.8	42.6	45.1	45.4	46.3	45.4	41.4	28.7						
12500	31.8	34.2	36.2	38.4	42.3	44.6	46.6	47.3	46.8	40.1	24.1						
16000	24.7	28.1	30.8	33.4	36.9	38.8	44.8	42.3	40.5	32.9	15.7						
20000	19.7	23.5	26.8	30.4	34.6	37.7	40.9	38.8	35.8	25.3	2.8						
25000	12.2	16.7	20.4	24.4	28.5	30.7	33.4	30.1	25.0	12.1							
31500		4.7	9.6	15.4	20.1	23.1	23.1	19.7	12.9								
40000					2.5	4.6	4.9										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.9	59.3	61.9	64.2	67.1	69.1	68.8	66.6	65.0	63.4	54.9						
PNDB	66.4	68.3	71.2	74.1	77.0	79.1	79.2	77.0	75.9	73.6	62.9						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE - MONTH 12 DAY 17 NO. 10.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.5	75.9	80.1	82.4	82.4	81.7	78.9	72.9	70.7	75.6	77.1							113.4
125	69.3	68.4	70.6	67.9	71.4	68.7	70.9	76.9	72.2	73.1	75.1							105.1
160	68.5	66.4	66.6	64.9	67.6	67.7	70.4	69.9	72.6	74.1	75.4							104.2
200	69.8	67.1	66.9	64.9	69.1	70.1	71.9	72.1	73.7	75.8	77.3							105.8
250	69.5	69.1	70.1	70.6	71.1	71.9	73.1	72.6	73.7	75.1	75.6							106.4
315	70.3	70.4	70.6	71.2	71.1	71.9	73.8	73.1	72.7	74.6	75.1							108.5
400	68.6	69.4	69.1	69.7	69.6	70.7	71.1	71.1	72.7	74.3	74.3							105.3
500	66.8	67.1	67.1	68.2	69.4	70.7	72.1	73.2	74.0	74.8	73.9							105.5
630	69.1	68.6	69.6	70.7	71.9	74.2	77.6	76.2	76.5	77.6	74.9							108.6
800	74.1	71.6	73.4	71.2	74.4	75.7	83.1	77.1	79.0	78.6	75.9							111.6
1000	68.7	68.6	69.4	70.9	73.1	75.2	82.1	77.9	79.7	79.5	73.9							111.1
1250	72.4	71.4	75.6	78.2	79.2	81.7	84.3	85.9	86.5	84.4	79.1							116.8
1600	73.2	69.7	72.9	75.0	76.8	78.7	80.3	81.1	81.7	81.9	75.9							112.7
2000	65.4	65.7	66.9	68.6	70.7	72.3	73.1	72.9	74.0	74.6	70.4							105.6
2500	63.9	64.7	65.4	67.6	69.8	71.5	71.8	72.4	73.7	73.4	68.8							105.2
3150	63.9	63.7	64.6	66.6	69.5	72.3	73.3	74.1	77.2	76.2	69.8							106.5
4000	65.4	67.3	67.8	69.4	72.5	76.0	76.7	78.5	81.2	81.9	73.8							110.8
5000	64.6	65.4	66.8	68.6	72.2	75.9	78.2	79.2	82.6	81.8	74.8							111.4
6300	64.9	65.5	67.0	68.5	71.6	75.9	78.2	80.3	82.6	81.8	74.3							111.7
8000	63.1	63.7	65.5	67.5	70.8	74.9	77.5	79.0	81.0	78.2	71.4							110.1
10000	64.4	64.5	66.8	68.6	72.1	75.7	78.3	80.3	82.4	80.0	73.3							111.5
12500	65.2	64.3	66.7	69.2	73.1	76.6	79.1	80.6	83.4	79.2	73.1							112.3
16000	63.7	64.0	65.4	67.1	71.1	75.3	77.5	80.2	81.4	77.7	71.6							111.2
20000	64.3	64.2	66.1	68.1	72.7	76.5	78.4	80.5	83.6	78.8	72.0							112.9
25000	65.3	64.9	66.5	68.3	72.4	75.8	77.2	79.3	80.4	77.5	70.7							111.8
31500	64.9	64.6	66.3	69.1	73.5	76.5	77.8	79.1	80.2	76.5	68.9							112.0
40000	64.9	63.8	67.0	68.2	70.7	73.1	74.5	75.6	77.3	73.7	65.4							111.1
50000	67.5	64.6	69.6	65.2	69.3	69.4	70.6	70.7	71.8	70.1	64.0							109.5
63000	69.1	65.0	70.8	65.5	68.9	67.0	67.3	66.6	67.3	64.3	64.3							110.7
80000	72.3	67.3	70.4	67.1	68.6	68.7	68.2	67.3	66.5	67.0	65.5							115.5
OVERALL MEASURED																		
OVERALL CALCULATED	83.4	82.9	85.4	86.8	88.2	90.1	92.4	92.7	94.4	93.3	88.6							125.8
PNDB	92.0	92.5	93.9	95.6	97.7	100.3	102.1	102.7	105.0	104.9	99.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 17 HR. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	155. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	50.9	53.2	56.1	60.7	65.5	59.9	56.7	48.8	46.3	49.0	47.0						
VEHICLE P=59	125	45.5	45.6	48.5	46.1	49.7	46.8	48.6	47.8	47.7	46.4	44.9						
CONFIG 10	160	42.7	43.5	44.4	45.1	45.9	45.6	48.0	46.7	47.3	47.3	44.9						
LOC SCHENECTADY	200	41.8	44.1	44.6	45.0	47.3	44.2	49.4	46.8	49.0	48.9	46.7						
DATE 12/10/74	250	45.5	46.0	47.7	48.6	49.2	49.8	50.6	49.2	48.8	48.0	44.7						
RUN 34/1	315	46.1	47.2	48.1	49.1	49.2	49.8	51.2	48.6	47.7	47.3	44.0						
TAPE	400	44.5	46.1	46.8	47.5	47.6	48.4	48.4	47.5	47.6	46.9	43.0						
BAR 29.6 MG	500	42.4	43.6	44.5	45.9	47.2	48.4	49.3	49.4	48.7	47.3	42.3						
(99923. N/M2)	630	44.6	45.2	46.9	48.3	49.7	51.8	54.7	52.3	51.1	49.8	43.0						
TAMB 43. DEG F	800	42.4	46.3	50.5	48.7	52.0	53.2	60.0	53.2	53.4	50.8	43.7						
(279. DEG K)	1000	44.1	44.9	46.3	48.3	50.7	52.6	58.9	53.8	54.0	51.4	41.4						
TWET 38. DEG F	1250	47.4	47.5	52.5	56.3	56.6	56.9	61.0	61.6	60.6	57.9	46.3						
(276. DEG K)	1600	45.0	45.6	49.5	52.1	53.2	55.8	58.8	56.6	55.6	53.2	42.6						
HACT 4.60 GM/M3	2000	40.0	41.4	43.3	45.5	47.8	49.1	49.4	46.2	47.6	45.8	36.6						
(.00460 KG/M3)	2500	38.3	40.2	41.7	44.4	46.6	48.2	47.9	47.4	49.1	44.0	34.7						
NFA 5470. RPM	3150	37.9	38.9	40.6	43.1	46.1	48.7	49.1	48.8	50.2	46.3	34.9						
(573. RAD/SEC)	4000	38.8	41.7	43.4	45.4	48.7	52.0	52.1	52.8	53.6	51.3	37.8						
NFK 5556. RPM	5000	37.7	39.9	42.1	44.4	48.2	51.7	53.3	53.2	54.7	50.8	37.3						
(582. RAD/SEC)	6300	37.2	38.1	41.5	43.6	46.9	51.0	52.5	53.4	53.7	49.5	35.9						
NFD 8023. RPM	8000	33.9	36.1	38.9	41.5	45.0	48.8	50.7	50.8	50.4	44.0	30.1						
(924. RAD/SEC)	10000	33.3	35.2	38.6	41.1	44.8	48.1	49.8	50.3	49.9	43.1	28.1						
NO. OF BLADES 15	12500	31.3	32.4	36.2	39.4	43.5	46.8	48.3	48.0	47.7	38.3	22.1						
FAN TIP SPEED	16000	25.2	28.0	31.0	33.7	37.9	41.8	42.8	43.3	40.7	30.9	11.4						
478. FT/SEC	20000	19.6	22.7	26.7	29.8	34.8	38.1	38.6	36.0	36.3	23.0							
	25000	11.9	15.7	19.9	23.2	27.8	30.5	30.1	28.6	23.5	9.8							
	31500		4.0	9.2	14.8	18.9	21.1	19.9	18.5	9.5								
	40000					1.4	2.7	0.7										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		57.7	58.7	61.9	64.0	65.0	60.0	67.0	60.3	69.9	62.3	50.0						
PNLB		65.9	67.3	69.9	72.1	74.0	70.5	77.7	77.1	77.5	74.7	63.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 17 HR. 16.4

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	75.3	76.6	73.6	71.7	72.1	71.4	72.1	71.2	74.5	77.8	80.4							108.7
VEHICLE R-88	125	71.5	71.1	71.9	70.9	74.6	71.4	71.1	73.7	75.2	77.3	79.6							108.1
CONFIG 16	160	69.0	69.1	69.4	68.4	71.9	70.2	71.6	73.4	75.5	78.6	79.6							107.7
LOC SCHEREctADY	200	69.3	68.1	68.9	68.7	72.6	73.9	74.1	75.9	77.2	80.1	81.6							109.4
DATE 12/10/74	250	72.0	71.6	72.6	73.1	75.4	74.6	75.3	76.1	77.2	78.6	79.6							109.7
RUN 34/2	315	73.3	73.9	74.1	74.2	78.6	75.2	74.8	75.4	76.7	78.8	79.3							110.3
TAPE	400	71.3	72.1	72.1	72.8	75.9	73.7	73.6	74.9	76.7	78.3	78.8							109.1
BAR 29.6 MG	500	69.6	69.9	69.6	70.9	74.9	73.9	74.9	75.7	77.2	78.3	77.6							108.8
(99923. N/M2)	630	71.9	71.9	72.9	73.7	74.9	76.9	78.9	79.2	80.2	80.6	78.4							111.4
TAMB 42. DEG F	800	74.6	73.4	74.4	73.9	76.9	75.4	78.6	79.4	80.7	80.3	78.1							112.0
(279. DEG K)	1000	73.6	73.1	73.9	73.8	76.1	78.2	78.8	80.4	81.5	81.6	78.6							112.1
TWET 38. DEG F	1250	70.9	70.4	72.9	74.7	77.2	78.7	80.3	81.6	83.0	83.1	77.4							113.3
(276. DEG K)	1600	74.2	74.7	76.1	79.5	83.0	84.7	84.8	86.9	86.7	87.1	80.4							118.0
MACT 4.90 GM/M3	2000	68.9	68.7	69.9	72.1	73.7	75.7	77.1	77.6	78.0	77.9	74.4							109.4
(.00490 KG/M3)	2500	67.7	67.7	68.9	70.6	72.5	74.5	74.3	73.1	75.2	72.9	71.8							106.8
NFA 6243. RPM	3150	67.7	67.7	69.8	71.6	74.3	77.0	77.5	78.6	82.0	79.4	74.8							110.9
(654. RAD/SEC)	4000	67.9	68.4	70.3	73.1	76.5	79.5	79.7	81.5	83.9	81.1	75.8							114.1
NFK 6348. RPM	5000	68.3	68.7	71.5	72.8	78.7	79.9	81.1	83.7	86.6	84.1	77.2							115.1
(665. RAD/SEC)	6300	67.9	68.7	70.7	72.5	78.3	79.9	81.9	84.8	86.4	83.5	76.8							115.3
NFD 8823. RPM	8000	66.0	67.2	69.0	71.5	74.5	79.1	81.7	83.7	84.2	80.5	74.6							113.9
(924. RAD/SEC)	10000	66.6	67.5	69.0	72.5	76.4	79.7	82.5	84.2	86.4	82.5	76.1							115.3
NO. OF BLADES 15	12500	67.8	67.5	69.2	73.1	77.3	79.3	83.1	84.6	86.4	81.9	76.5							115.7
FAN TIP SPEED	16000	65.4	65.7	67.5	70.8	75.2	78.5	81.2	83.9	85.1	79.2	74.0							114.6
545. FT/SEC	20000	66.4	66.1	68.5	72.2	76.6	79.9	81.8	84.7	87.3	81.5	75.0							116.5
	25000	67.0	66.7	69.0	72.8	76.7	79.3	81.5	83.3	84.8	80.5	74.2							115.8
	31500	65.8	66.1	68.2	73.4	77.5	80.7	81.7	83.3	84.0	79.8	72.1							116.6
	40000	65.7	64.3	67.5	69.7	75.0	77.4	79.0	80.1	81.3	77.0	67.9							115.1
	50000	67.6	64.7	69.0	67.0	71.8	72.9	74.6	74.5	75.7	72.4	64.8							112.5
	63000	69.5	65.4	70.2	66.1	70.4	68.8	69.7	68.5	69.7	67.4	64.7							111.8
	80000	72.6	67.4	70.9	67.4	69.6	69.0	68.5	67.6	66.8	67.2	65.8							115.9
OVERALL MEASURED																			
OVERALL CALCULATED		85.1	85.8	86.3	87.5	90.8	92.7	94.1	95.9	97.4	98.3	91.8							120.2
	PNWL	94.9	95.2	97.3	98.7	101.8	103.8	104.4	106.3	108.3	106.8	102.2							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 17 HR. 16.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	51.4	53.7	51.6	50.0	50.5	49.7	49.8	48.1	50.0	51.0	50.3						
VEHICLE Fans	125	47.8	48.3	49.7	49.1	53.0	49.6	48.8	50.5	50.7	50.7	49.4						
CONFIG 16	160	45.2	46.2	47.2	47.6	50.1	48.3	49.2	50.2	50.8	51.8	49.1						
LOC SCHENECTADY	200	45.1	45.1	46.6	47.7	50.8	51.9	51.7	52.6	52.5	53.1	50.9						
DATE 12/10/74	250	48.0	48.5	50.2	51.1	53.5	52.6	52.8	52.7	52.3	51.5	48.7						
RUN 34/2	315	49.1	50.7	51.6	52.1	56.7	53.0	52.2	51.9	51.7	51.6	48.3						
TAPE	400	47.0	48.9	49.6	50.0	53.8	51.4	50.9	51.3	51.6	50.9	47.5						
BAR 29.8 HG	500	45.2	46.5	47.0	48.7	52.7	51.0	52.0	51.9	52.0	50.8	46.0						
(99923. N/M2)	630	47.3	48.4	50.1	51.3	52.7	54.5	55.9	55.3	54.9	52.8	46.5						
TAMB 42. DEG F	800	49.9	49.8	51.5	51.5	54.5	55.9	55.5	55.4	55.2	52.4	46.0						
(279. DEG K)	1000	45.5	47.4	48.8	51.3	53.7	55.5	56.7	56.2	55.8	53.4	44.4						
THET 38. DEG F	1250	45.9	46.5	49.7	52.9	54.6	55.9	57.0	57.3	57.1	54.7	44.5						
(276. DEG K)	1600	45.9	50.6	54.8	56.6	60.2	61.8	61.3	62.4	60.6	58.4	47.1						
HACT 4.90 GM/M3	2000	43.5	44.4	46.3	49.0	50.8	52.6	53.4	52.9	51.6	48.8	40.6						
(.00490 K6/M3)	2500	42.0	43.2	45.1	47.3	49.4	51.2	50.4	48.2	48.6	43.5	37.6						
NFA 6243. RPM	3150	41.6	42.9	45.8	48.1	50.2	53.4	53.3	53.3	55.0	49.5	39.9						
(654. RAD/SEC)	4000	41.3	43.1	45.8	49.2	52.7	55.4	55.1	55.8	56.3	50.5	39.8						
NFK 6348. RPM	5000	41.5	43.1	46.8	48.6	52.7	55.7	56.3	57.7	58.7	53.0	40.8						
(665. RAD/SEC)	6300	40.1	42.4	45.2	47.6	51.0	54.9	56.3	57.9	57.5	51.2	38.3						
NFD 8823. RPM	8000	36.9	39.5	42.4	45.5	48.7	53.0	54.9	55.6	53.8	46.3	33.4						
(924. RAD/SEC)	10000	35.5	38.2	40.8	45.0	49.0	52.1	54.0	54.3	53.8	45.6	30.9						
NO. OF BLADES 15	12500	33.9	35.6	38.6	43.3	47.7	49.5	52.3	52.0	50.9	41.0	25.6						
FAN TIP SPEED	16000	26.9	29.7	33.2	37.4	42.1	45.0	46.5	47.0	44.4	31.9	13.6						
945. FT/SEC	20000	21.8	24.6	29.1	34.0	38.7	41.6	42.0	42.2	39.9	25.7	2.2						
	25000	13.7	17.4	22.4	27.7	32.5	34.0	34.2	32.6	28.0	12.0							
	31500		5.4	11.1	18.2	22.9	25.3	23.9	20.8	13.2								
	40000					5.6	7.0	5.2										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		59.3	60.9	62.3	63.6	66.0	67.0	66.1	66.7	66.3	65.3	59.9						
PNDB		69.0	70.5	73.4	75.3	78.6	80.2	80.2	80.8	80.9	76.9	67.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — FROG. DATE = MONTH 12 DAY 17 HR. 16.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (.92)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	FREQ. 50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.0	72.6	72.9	71.7	71.6	72.7	71.9	72.2	76.0	80.3	84.1							109.8
VEHICLE R-55	125	75.8	79.4	78.9	76.4	75.4	74.2	74.4	77.4	78.5	80.6	83.6							112.2
CONFIG 16	160	72.5	72.9	72.9	73.2	73.4	73.7	75.4	76.9	79.5	82.1	83.9							111.4
LOC SCHENECTADY	200	71.5	70.9	71.4	72.4	74.6	76.9	77.1	78.9	81.0	83.3	85.1							112.6
DATE 12/10/74	250	75.3	75.3	75.9	76.6	77.4	78.4	78.8	79.4	80.7	82.8	84.1							113.3
RUN 34/3	315	76.5	76.9	77.1	77.4	77.9	78.7	78.3	78.6	80.2	82.3	83.8							113.3
TAPE	400	75.1	74.9	74.6	75.4	76.1	76.7	77.1	77.9	79.7	81.8	82.6							112.0
BAR 29.6 HG	500	73.8	73.6	73.4	73.9	74.9	76.4	77.9	78.9	80.2	81.6	81.4							111.7
(99923. N/M2)	630	74.9	73.6	74.9	75.9	77.4	79.2	80.6	81.7	82.0	83.3	81.8							113.7
TAMB 42. DEG F	800	74.6	74.1	74.4	74.7	76.6	80.7	81.3	81.6	83.0	82.4	81.9							114.4
(279. DEG K)	1000	73.6	73.4	73.4	75.9	78.4	79.9	81.1	82.8	84.2	83.1	80.3							114.3
TWET 38. DEG F	1250	73.4	72.9	74.9	77.2	78.7	80.7	82.3	82.9	84.5	83.9	80.1							114.9
(276. DEG K)	1600	77.9	76.4	77.6	79.0	81.5	83.0	83.6	84.9	87.0	86.1	80.9							117.1
HACT 4.90 GM/M3	2000	75.4	74.2	74.4	77.1	79.0	81.2	81.6	82.6	84.5	84.1	79.4							114.9
(.00490 KG/M3)	2500	70.9	71.5	72.1	74.6	76.3	77.6	77.6	76.4	78.0	78.4	75.8							110.1
NFA 7228. RPM	3150	71.2	71.5	72.3	74.6	77.3	79.8	80.3	81.1	84.2	79.9	76.8							113.3
(736. RAD/SEC)	4000	71.4	72.2	73.5	76.4	80.0	82.5	83.0	84.5	87.7	83.6	78.5							116.3
NFK 7146. RPM	5000	71.3	72.4	73.2	75.9	79.0	82.7	85.4	85.9	90.1	85.1	78.9							117.9
(748. RAD/SEC)	6300	71.2	71.7	73.2	76.5	78.6	82.9	84.7	87.3	89.4	85.5	79.3							118.0
NFD 8823. RPM	8000	68.3	70.7	72.0	75.5	78.0	82.6	84.7	87.0	88.2	83.0	77.1							117.3
(924. RAD/SEC)	10000	69.6	71.0	73.0	76.3	79.4	83.4	85.7	87.7	89.6	84.2	78.3							118.5
NO. OF BLADES 15	12500	70.1	70.5	72.7	76.1	80.5	83.3	86.1	88.3	89.8	84.6	79.0							119.0
FAN TIP SPEED	16000	67.6	68.9	70.5	74.3	78.5	82.0	84.7	87.4	87.6	82.2	77.0							117.7
614. FT/SEC	20000	69.2	69.1	71.5	76.0	79.8	82.9	85.3	88.5	90.3	84.0	78.0							119.7
	25000	69.5	68.9	72.0	76.3	80.9	83.5	85.2	88.0	89.6	84.0	77.5							120.1
	31500	67.8	68.8	72.0	77.1	81.2	84.2	85.2	86.8	87.7	82.6	75.9							120.2
	40000	66.5	66.3	69.7	73.7	78.5	80.6	82.7	84.1	85.0	80.0	71.2							118.7
	50000	68.1	65.7	69.2	69.8	73.8	75.9	76.6	78.5	79.4	75.9	67.1							115.8
	63000	70.3	65.4	69.5	66.9	70.9	70.8	72.2	71.2	72.4	69.9	65.0							113.3
	80000	72.6	67.4	70.4	67.4	69.1	69.0	68.5	67.6	68.0	67.2	65.8							115.8
OVERALL MEASURED																			
OVERALL CALCULATED		87.7	87.8	88.6	90.3	92.8	95.4	97.0	98.8	100.5	97.5	95.2							131.0
PNLT		98.3	98.3	99.2	101.4	103.9	106.3	107.7	108.8	111.6	108.8	105.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PNOC. DATE - MONTH 12 DAY 17 HR. 16.4

MOTEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)											
		53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133 (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	45.4	49.9	50.5	50.0	50.0	50.9	49.7	49.1	51.5	53.8	54.0						
VEHICLE R-55	125	52.0	56.6	56.2	54.6	53.7	52.3	52.1	54.3	53.9	53.9	53.4						
CONFIG 16	160	48.7	50.0	50.7	51.3	51.6	51.0	53.0	53.7	54.8	55.3	53.4						
LOC SCHENECTADY	200	47.6	47.9	49.1	50.5	52.8	54.9	54.7	55.6	56.2	56.4	54.4						
DATE 12/10/74	250	51.2	52.3	53.3	54.4	55.5	56.3	56.3	56.0	55.8	55.7	53.2						
RUN 34/3	315	52.4	53.7	54.6	55.3	55.9	56.5	55.7	55.1	55.2	55.1	52.8						
TAPE	400	50.8	51.6	52.1	53.2	54.1	54.4	54.4	54.3	54.6	54.4	51.3						
BAR 29.6 HG	500	48.4	49.3	49.7	51.7	52.7	54.1	55.0	55.2	55.0	54.0	49.8						
(99823. N/M2)	630	50.3	50.2	52.1	53.6	55.2	56.8	57.7	57.8	56.6	55.6	49.8						
TAMB 42. DEG F	800	51.3	52.3	53.5	54.2	56.3	58.2	58.3	57.2	57.4	54.9	49.7						
(279. DEG K)	1000	48.8	49.5	50.3	53.3	55.9	57.3	57.9	58.5	58.5	54.9	47.9						
TWET 38. DEG F	1250	49.4	49.3	51.7	54.5	56.1	57.9	59.0	58.6	58.6	55.4	47.3						
(276. DEG K)	1600	52.7	52.3	54.3	56.1	58.7	60.0	60.1	60.4	60.9	57.4	47.8						
HACT 4.50 GM/M3	2000	50.3	49.3	50.8	54.3	56.0	58.1	57.9	57.9	58.1	55.1	45.6						
(.00490 KG/M3)	2500	45.2	47.0	48.4	51.3	53.1	54.4	53.7	51.4	51.4	47.0	41.4						
NFA 7028. RPM	3150	45.1	46.6	48.3	51.1	53.9	56.2	56.1	55.8	57.2	50.0	41.9						
(736. RAD/SEC)	4000	44.8	46.7	49.1	52.4	56.2	58.4	58.3	58.8	60.1	53.0	42.5						
NFK 7146. RPM	5000	44.5	46.8	48.5	51.4	54.9	58.4	60.5	59.9	62.2	54.0	42.3						
(748. RAD/SEC)	6300	43.4	45.4	47.7	51.6	53.8	57.9	59.0	60.4	60.5	53.2	40.8						
NFD 8823. RPM	8000	39.8	43.3	45.4	49.5	52.2	56.5	57.9	58.8	57.8	49.8	35.9						
(924. RAD/SEC)	10000	33.5	41.7	44.5	48.8	52.0	55.8	57.3	57.8	57.1	47.3	33.1						
NO. OF BLADES 15	12500	36.2	38.6	42.1	46.3	51.0	53.5	55.3	55.7	54.2	43.8	28.1						
FAN TIP SPEED	16000	29.1	32.9	36.2	40.9	45.3	48.5	50.0	50.5	46.9	34.9	16.6						
614. FT/SEC	20000	23.5	27.6	32.1	37.7	42.0	44.8	45.5	45.9	42.9	28.2	5.2						
	25000	15.2	19.7	25.4	31.2	36.3	38.3	38.1	37.4	32.8	16.1							
	31500	1.8	8.2	14.9	21.9	26.7	28.8	27.4	24.3	16.9								
	40000				3.6	8.8	10.2	9.0	3.9									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.3	63.7	66.8	68.3	68.1	70.0	70.3	70.7	71.0	67.3	63.2						
PNLF		72.5	73.3	75.0	77.6	80.3	82.5	83.1	83.8	84.1	78.4	78.2						

PAGE 1 FULL SCALE DATA CONFIGURATION PROGRAM — PROG. DATE = MONTH 12 DAY 17 HR. 16.5

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES FROM AXIS

	FREQ.	53. (1.02)	66. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.93)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	50												110.	110.	110.	110.	110.	110.		
	63																			
RADIAL 17. FT.	80																			
(5. M)	100	69.3	72.4	73.4	73.4	74.4	74.7	74.4	75.2	79.5	84.6	87.6								113.0
VEHICLE RPGS	125	76.1	77.1	75.6	75.7	77.4	78.2	78.9	79.9	81.7	84.3	87.4								114.5
CONFIG 16	160	75.5	75.9	75.8	76.4	76.4	76.9	78.9	80.2	83.2	85.3	87.6								114.8
LOC SCHENECTADY	200	74.0	73.5	74.6	75.7	77.9	80.1	80.4	81.9	84.0	87.3	89.3								116.2
DATE 12/10/74	250	79.1	79.6	81.4	82.4	83.4	84.1	84.8	86.1	86.7	88.3	89.3								119.0
RUN 34/4	315	79.3	80.1	79.3	80.4	82.9	81.7	81.6	82.4	83.7	85.8	87.1								118.6
TAPE	400	78.1	78.4	77.6	78.4	78.4	79.7	80.4	81.4	83.0	85.1	86.1								115.3
BAR 29.5 HG	500	73.8	75.2	75.6	76.4	77.9	79.9	80.9	82.4	83.5	84.6	85.1								114.9
(99923. N/M2)	630	74.6	77.1	77.6	78.4	80.2	82.4	83.4	84.7	85.2	85.1	84.9								116.5
TAMB 42. DEG F	800	78.6	78.4	79.1	79.4	81.1	82.9	83.8	84.6	85.7	85.1	84.6								117.0
(279. DEG K)	1000	74.4	77.1	76.4	78.7	80.9	82.7	83.8	84.8	86.0	85.3	83.3								116.7
TWET 38. DEG F	1250	74.2	76.2	77.4	78.5	80.9	83.0	84.1	85.1	86.2	85.4	82.9								116.9
(276. DEG K)	1600	76.2	76.7	78.1	79.5	81.5	83.5	84.1	84.4	85.5	83.9	81.6								116.6
HACT 4.60 GM/M3	2000	77.2	77.0	77.4	79.1	82.2	84.2	84.8	86.1	86.0	84.9	81.9								117.8
(.00190 KG/M3)	2500	74.4	74.7	75.1	77.4	79.5	80.5	79.8	79.9	81.0	80.1	79.1								113.1
NFA 7801. RPM	3150	74.4	74.2	75.6	77.9	80.5	82.5	82.3	83.3	84.7	81.1	78.3								115.2
(817. RAD/SEC)	4000	74.6	75.7	76.8	80.1	83.5	86.2	86.0	86.8	90.4	86.6	81.8								119.7
NFK 7932. RPM	5000	73.6	74.4	75.7	78.1	81.7	85.7	85.4	88.7	91.4	85.6	81.4								119.6
(830. RAD/SEC)	6300	74.7	75.5	76.5	80.3	83.1	86.9	87.7	92.0	92.4	87.0	81.8								121.5
NFD 8823. RPM	8000	72.5	73.7	74.5	78.2	80.8	84.8	87.4	90.8	90.0	84.2	79.9								119.7
(924. RAD/SEC)	10000	72.4	73.8	75.5	79.3	83.1	86.2	89.0	91.0	91.6	85.5	80.6								121.2
NO. OF BLADES 15	12500	72.6	74.0	75.9	79.9	84.3	88.3	90.3	92.3	92.6	86.4	81.8								122.4
FAN TIP SPEED	16000	73.6	71.7	73.8	77.5	82.0	85.3	87.9	90.9	90.3	84.2	79.7								120.8
681. FT/SEC	20000	71.2	72.3	74.8	79.2	83.6	86.7	89.6	92.2	92.5	86.0	81.0								123.0
	25000	71.5	72.9	75.2	80.3	84.2	86.8	90.0	92.8	93.1	87.0	81.5								124.1
	31500	70.3	72.3	75.3	80.4	84.5	87.2	88.7	91.3	91.2	85.1	78.9								123.6
	40000	68.7	69.6	73.0	77.2	81.5	84.1	86.2	87.8	88.3	82.5	73.9								122.1
	50000	68.4	67.5	70.5	73.0	76.8	79.9	82.1	82.3	83.4	78.9	69.1								119.4
	63000	70.0	65.7	69.5	68.6	70.9	73.3	75.0	74.5	75.4	71.7	65.5								115.3
	80000	72.6	69.9	70.4	68.1	69.1	69.2	69.7	68.8	69.8	67.7	65.8								116.5
OVERALL MEASURED																				
OVERALL CALCULATED		49.9	90.3	91.1	93.2	96.0	98.4	100.2	102.4	103.1	99.7	98.7								134.8
	PNDB	100.6	101.2	102.0	104.4	107.1	109.5	109.9	112.5	113.5	110.8	108.1								

MODEL SOUND PRESSURE LEVELS (50. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.6	49.7	51.3	51.7	52.8	52.4	52.2	52.1	55.0	56.8	57.5						
125	53.6	54.3	53.5	53.2	55.7	56.3	56.6	56.8	57.2	57.7	57.1						
160	51.7	53.0	53.4	54.6	54.6	55.0	56.5	56.9	58.6	59.5	57.1						
200	50.1	50.6	52.3	51.7	56.1	58.2	57.9	58.6	59.2	60.4	58.7						
250	55.7	56.5	59.8	60.4	61.5	62.1	62.3	62.7	61.8	61.2	58.5						
315	55.6	57.0	57.4	58.3	58.9	59.5	59.0	58.9	58.7	58.6	56.0						
400	53.8	55.1	55.1	56.2	56.3	57.7	57.6	57.8	57.9	57.7	54.8						
500	51.4	52.5	53.0	54.2	55.7	57.6	58.0	58.7	58.2	57.8	53.5						
630	52.1	53.7	54.9	56.1	57.9	60.0	60.4	60.8	59.4	57.3	53.8						
800	53.9	54.3	56.2	57.2	58.5	60.4	60.8	60.7	60.2	57.1	52.5						
1000	51.6	53.4	53.3	56.1	58.4	60.3	60.4	60.5	60.3	57.2	50.9						
1250	51.2	52.2	54.2	56.8	58.3	60.2	60.9	60.8	60.3	56.9	50.8						
1600	50.9	52.8	54.8	57.8	59.7	60.5	60.6	59.9	59.4	55.2	48.3						
2000	51.7	52.8	53.8	56.0	59.3	61.1	61.1	61.4	61.6	55.8	48.1						
2560	48.7	50.2	51.4	54.1	56.4	57.2	55.9	54.9	54.4	50.8	44.9						
3150	48.4	49.4	51.6	54.3	57.1	58.9	58.1	58.1	57.7	51.3	43.4						
4000	49.1	50.4	52.3	56.2	59.7	62.2	61.3	63.0	62.4	56.0	45.0						
5000	46.7	48.8	51.3	53.9	57.7	61.4	60.5	62.7	63.4	54.5	44.8						
6300	46.9	49.1	51.8	55.1	59.3	61.9	62.8	65.1	63.5	54.7	43.3						
8000	43.4	46.8	47.9	52.2	54.9	58.7	60.6	61.8	59.6	50.8	38.0						
10060	41.3	44.4	47.3	51.8	55.8	58.6	60.5	61.0	59.1	48.6	35.4						
12500	38.7	42.1	45.4	50.1	54.7	56.5	59.5	59.7	56.9	45.5	30.6						
16000	32.1	35.7	39.4	44.1	48.8	51.7	53.2	54.0	49.7	36.9	19.4						
20000	26.5	30.9	35.4	41.9	45.7	48.3	49.8	49.7	45.2	30.2	8.2						
25000	18.2	23.7	28.8	35.2	39.9	41.5	42.9	42.1	36.3	19.1							
31500	4.3	11.7	18.4	25.2	29.9	31.6	30.9	28.8	20.4								
40000			0.2	7.1	12.1	13.7	12.5	7.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.6	66.8	67.2	69.5	71.1	73.8	73.2	74.8	73.6	70.2	60.9						
PNDB	74.6	76.2	77.8	80.7	83.5	85.7	85.4	86.5	86.2	80.8	73.3						

SIDELINE 200. FT. (60.96 M)

VEHICLE B-58

CONFIG 10

LCC SCHENECTADY

DATE 12/10/74

RUN 34/4

TAPE

BAR 29.6 IN HG (99923. N/M2)

TAMB 42. DEG F (276. DEG K)

TMET 38. DEG F (276. DEG K)

WACT 4.90 GM/M3 (.00490 KG/M3)

NFA 7901. RPM (827. RAD/SEC)

NFK 7932. RPM (830. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 681. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 17 NO. 10.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	66. (1.15)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	155. (2.71)	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	50																	
		63																	
RADIAL 17. FT.		80																	
(5. PI		100	73.5	78.1	74.1	73.1	74.1	75.4	76.1	81.6	79.1	83.5	87.8						113.8
VEHICLE E-55		125	78.0	80.5	76.6	75.9	77.2	78.1	79.1	83.4	82.4	83.7	87.6						115.3
CONFIG 10		160	76.5	78.1	76.4	76.1	76.9	77.1	79.9	83.9	82.9	84.7	87.6						115.3
LOC SCHENECTADY		200	76.7	77.3	75.3	76.1	77.9	80.1	80.8	85.6	84.1	86.4	89.0						116.7
DATE 12/16/74		250	80.0	80.3	80.8	81.9	82.1	83.1	84.3	86.1	85.9	87.2	88.3						118.3
RUN 34/5		315	80.0	81.1	80.1	80.9	81.4	81.6	82.3	86.1	84.1	85.7	87.5						117.8
TAPE		400	80.3	79.6	78.3	78.6	79.1	80.1	82.3	82.1	83.1	84.9	86.3						115.8
BAR 29.6 HG		500	76.6	78.1	76.5	77.1	78.1	80.1	80.8	84.9	83.4	84.2	85.6						115.5
(99823. N/M2)		630	77.6	78.1	78.6	79.4	80.4	82.4	84.1	85.1	85.1	85.2	85.8						116.9
TAMB 42. DEG F		800	84.9	81.3	82.8	80.4	83.1	84.4	85.8	85.6	86.6	85.8	86.1						118.6
(279. DEG K)		1000	83.9	76.3	77.8	79.6	81.4	82.9	83.6	84.8	85.9	85.8	83.8						117.2
T-ET 36. DEG F		1250	84.5	76.8	77.6	79.9	81.4	82.9	84.6	85.3	86.4	84.2	83.3						117.5
(276. DEG K)		1600	77.1	77.6	78.3	79.7	81.5	83.5	83.8	84.1	85.8	83.8	81.8						116.6
WACT 4.98 GM/M3		2000	77.1	77.6	77.6	79.3	82.0	84.2	85.3	85.8	87.7	84.5	82.6						117.7
(.00490 KG/M3)		2500	74.7	75.9	75.3	77.5	79.5	80.7	80.3	79.8	80.9	79.5	79.3						113.3
NFA 7709. RPM		3150	74.6	74.9	75.6	78.3	80.5	83.8	82.3	83.5	84.4	80.5	78.8						115.3
(817. RAD/SEC)		4000	74.8	76.4	77.0	80.1	83.5	85.9	85.7	88.5	90.8	86.2	82.9						119.6
NFK 7930. RPM		5000	74.3	75.1	76.2	78.8	81.7	85.9	85.9	86.9	91.8	85.4	80.9						119.6
(830. RAD/SEC)		6300	75.1	75.9	76.9	80.4	83.3	86.9	87.9	91.7	92.8	86.6	82.5						121.8
NFB 8023. RPM		8000	73.5	75.4	75.7	78.9	81.8	85.3	87.2	89.7	90.4	83.8	79.6						119.8
(924. RAD/SEC)		10000	74.3	75.4	76.5	80.2	83.3	86.6	89.0	90.9	92.3	85.6	80.8						121.5
NO. OF BLADES 15		12500	75.3	75.9	76.6	80.8	84.9	88.8	90.3	91.8	92.5	86.5	81.5						122.3
FAN TIP SPEED		16000	72.4	73.6	75.0	78.5	82.8	85.5	87.6	89.8	88.8	83.5	79.9						120.4
681. FT/SEC		20000	74.1	74.2	76.2	79.9	83.8	87.1	89.1	91.9	92.2	85.8	81.2						122.8
		25000	75.2	75.6	76.9	81.5	84.4	88.7	89.5	92.8	92.5	86.6	81.4						123.7
		31500	74.6	74.8	76.7	81.1	85.0	87.4	88.2	90.0	90.6	84.9	79.1						123.3
		40000	74.4	73.5	75.4	78.7	82.8	84.3	86.2	87.3	87.9	82.6	74.9						122.1
		50000	76.9	73.4	75.7	76.5	78.3	80.7	82.9	82.5	83.1	78.8	72.8						120.2
		63000	79.8	74.6	77.7	75.3	76.1	77.7	78.8	77.2	78.1	75.8	73.2						120.6
		80000	82.5	77.3	80.4	77.3	77.9	78.9	78.5	77.5	76.7	76.8	75.7						128.8
OVERALL MEASURED																			
OVERALL CALCULATED			93.4	92.2	92.4	93.9	96.3	98.7	100.2	102.4	103.0	99.3	98.9						134.7
	PWLP		102.2	102.4	102.5	104.7	107.2	109.5	110.1	112.8	113.7	110.4	108.3						

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OF POOR QUALITY

TOTAL SOUND PRESSURE LEVELS (EQ. D.C. F. 70 PERCENT BELL, MINN. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.	0.
	F(I)=	(.93	(1.09	(1.21	(1.41	(1.58	(1.75	(1.94	(2.13	(2.32	(2.52	(2.73	(0.	(180.	(180.	(180.	(180.	(180.	)
		30																	
		63																	
SIDELINE 200. FT.		AC																	
(60.96 M)		100	49.8	55.3	52.3	51.4	52.5	53.6	53.9	56.6	54.7	56.8	57.8						
VEHICLE	ARISE	125	54.2	57.8	54.4	54.1	54.2	54.3	54.8	66.2	57.4	57.0	57.3						
ENGINE	16	150	52.1	55.2	54.1	54.3	55.1	55.2	57.5	60.6	56.3	57.9	57.1						
LOC SCHEDULED		200	52.8	54.3	53.0	54.2	56.1	56.1	54.4	62.3	59.4	59.5	58.4						
DATE 12/10/74		250	55.9	57.2	54.4	56.8	60.2	61.0	61.8	62.7	61.6	60.1	57.4						
RUN 34/5		315	55.4	57.9	57.6	58.9	59.4	59.5	59.7	64.6	59.2	58.4	56.5						
TAPE		400	55.9	56.3	55.8	56.4	57.1	57.9	59.6	57.5	58.6	57.5	55.0						
BAR 29.6 MG		500	52.2	54.7	53.9	54.9	56.0	57.0	58.0	61.1	58.2	56.9	54.8						
(999	23. M/M2)	630	53.1	54.6	55.8	57.8	58.2	60.0	61.2	61.3	59.8	57.5	54.0						
TAMB 42.	DEG F	800	50.2	57.7	59.9	57.9	63.3	61.9	62.5	61.6	61.1	57.8	53.9						
(279.	DEG K)	1000	59.3	54.8	54.8	57.0	58.9	60.3	60.4	60.7	60.2	56.8	51.3						
TMET 30.	DEG F	1250	59.6	52.9	54.4	57.2	58.9	60.1	61.3	61.1	60.5	55.8	50.5						
(276.	DEG K)	1600	51.7	53.5	55.3	57.5	58.7	60.5	60.3	59.8	58.8	55.8	48.6						
HACT 4.00	GM/M3	2000	51.7	53.3	54.0	56.2	59.0	61.1	61.6	61.1	61.3	55.5	49.1						
(.0049	KG/M3)	2500	49.2	51.4	51.8	54.3	56.4	57.4	56.4	54.9	54.3	50.2	45.1						
NFA 7799.	RPM	3150	48.6	50.1	51.5	54.8	57.1	59.4	58.1	58.3	57.4	50.7	43.9						
(817.	RAD/SEC)	4000	48.3	51.1	52.6	56.1	59.7	61.9	61.1	62.7	63.3	55.6	46.9						
NFK 7830.	RPM	5000	47.4	49.5	51.5	54.8	57.7	61.6	61.0	62.9	63.1	54.4	44.3						
(820.	RAD/SEC)	6300	47.4	49.5	51.5	55.5	58.6	61.9	62.3	64.8	63.9	52.4	42.8						
NFB 8023.	RPM	8000	44.4	47.7	49.1	52.9	55.9	59.2	60.4	61.5	60.8	49.8	38.3						
(824.	RAD/SEC)	10000	43.2	46.1	48.3	52.7	56.0	59.0	60.5	61.8	59.8	48.7	35.6						
NO. OF BLADES 15		12500	41.4	44.3	46.1	51.9	54.5	58.9	59.5	59.2	56.9	45.7	30.5						
FAN TIP SPEED		16000	33.8	37.6	40.7	45.1	48.8	52.0	53.0	52.9	49.1	36.3	19.8						
841.	FT/SEC	20000	29.5	32.8	36.8	41.7	45.9	48.8	49.3	49.4	44.9	29.8	8.4						
		25000	21.9	26.4	33.3	35.9	39.8	41.5	42.4	41.3	35.7	18.8							
		31500	8.5	14.1	19.6	25.9	30.4	32.0	30.4	27.5	19.9								
		40000			2.6	8.5	12.8	13.9	12.5	7.1									
		50000																	
		63000																	
		80000																	
OVERALL CALCULATED			67.0	67.7	68.0	69.4	71.3	73.1	73.0	74.0	73.5	69.9	67.0						
		PNLB	76.6	77.4	78.4	81.0	83.6	85.7	85.6	86.9	86.4	80.4	73.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 20 HR. 17.0

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. M.)	100	67.9	73.7	75.9	74.8	74.4	72.1	67.2	70.8	74.3	76.4								107.3
VEHICLE R-99	125	67.9	69.7	67.2	72.6	67.9	67.4	70.7	72.2	72.8	73.1								104.5
CONFIG 10R	160	66.2	65.9	68.4	66.9	66.9	68.1	69.2	71.5	73.8	75.1								103.4
LOC SCHENECTADY	200	65.9	66.9	67.4	68.4	70.1	70.6	71.6	73.2	76.1	77.1								105.4
DATE 12/10/74	250	68.2	69.1	69.9	70.4	71.4	71.8	72.6	73.8	74.6	75.3								105.7
RUN 33/1	315	70.7	70.9	71.2	71.9	71.9	71.6	71.9	73.2	74.6	74.3								106.7
TAPE	400	68.9	68.9	68.9	69.9	70.4	71.1	71.6	73.8	74.3	74.6								105.
BAR 29.6 HG	500	66.2	66.4	67.9	69.4	70.7	72.1	73.2	74.8	74.8	73.8								105.3
(99823. N/M2)	630	68.4	69.7	70.7	71.9	74.7	75.9	78.4	78.7	77.1	74.9								110.2
TAMB 45. DEG F	800	73.7	70.9	72.2	75.4	77.2	76.1	78.4	79.5	79.6	78.8								110.6
(280. DEG K)	1000	68.9	69.9	73.2	75.6	78.7	80.8	82.9	84.8	85.1	78.6								114.1
T-ET 48. DEG F	1250	71.2	80.4	83.2	89.4	90.2	92.8	93.4	91.7	98.9	82.9								123.7
(278. DEG K)	1600	73.2	75.9	77.5	83.8	84.0	86.1	86.6	85.8	84.9	77.6								117.2
MACT 5.0; GM/M3	2000	65.3	66.9	68.3	70.5	72.7	73.8	74.4	74.7	75.6	71.6								106.3
(.00507 KG/M3)	2500	65.8	65.9	69.1	71.3	72.0	73.1	76.4	76.7	73.6	68.3								106.7
NPA 5469. RPM	3150	64.0	65.1	67.4	70.0	72.8	73.5	75.1	78.8	77.4	69.6								107.2
(573. RAD/SEC)	4000	67.0	67.3	70.1	73.5	77.0	77.5	79.8	82.2	82.6	74.8								111.5
NFK 5544. RPM	5000	65.7	66.7	69.3	72.5	76.2	76.6	79.7	83.9	82.8	74.7								112.2
(580. RAD/SEC)	6300	65.5	67.5	69.7	72.8	76.2	78.4	81.8	83.6	82.6	75.3								112.4
NFB 8823. RPM	8000	64.2	66.0	68.0	71.3	75.8	78.2	80.8	82.8	79.8	72.6								111.8
(924. RAD/SEC)	10000	64.8	65.8	68.8	72.6	76.4	78.5	80.5	83.9	80.7	73.6								112.3
NO. OF BLADES 15	12500	64.3	65.7	69.4	73.5	77.1	79.6	81.3	84.1	80.6	73.8								112.8
FAN TIP SPEED	16000	62.5	63.8	67.5	72.0	75.5	77.7	81.1	82.4	78.7	72.5								111.9
477. FT/SEC	20000	62.4	64.0	68.5	72.4	76.7	77.9	80.5	84.0	80.0	72.5								113.1
	25000	62.5	63.5	68.8	72.7	75.5	77.8	79.3	81.1	78.5	71.8								112.2
	31500	61.5	63.4	69.2	73.1	76.3	77.6	79.1	81.8	77.9	69.7								113.0
	40000	60.8	61.4	66.9	70.8	73.8	74.9	75.9	77.9	74.8	65.8								111.3
	50000	60.9	61.2	66.8	69.1	69.7	71.1	71.8	72.8	70.9	64.8								109.3
	63000	59.1	61.3	66.2	69.2	67.8	68.3	66.8	68.2	66.9	64.3								109.5
	80000	61.6	61.6	67.8	69.8	69.4	68.9	67.9	67.4	67.5	66.1								114.1
OVERALL MEASURED		81.5	84.8	87.2	91.8	93.2	95.4	96.3	96.6	95.5	89.7								127.8
OVERALL CALCULATED	PWSB	92.3	95.2	97.5	101.8	103.2	105.2	106.2	106.4	106.8	100.1								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 28 HR. 17.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																		
63																		
SIDELINE 200. FT. 60																		
(60.96 M) 100	45.2	51.6	54.2	53.3	52.7	49.9	44.1	45.5	47.8	48.3								
VEHICLE A-59 125	45.1	47.5	45.4	51.0	48.1	45.1	47.5	47.7	46.2	44.9								
CONFIG 16R 160	43.3	43.7	44.8	45.1	45.0	45.7	45.9	46.0	47.8	44.8								
LOC SCHENECTADY 200	42.9	44.6	45.5	46.8	49.2	48.2	48.3	48.5	49.1	46.4								
DATE 12/10/74 250	45.1	48.7	47.9	48.5	49.3	48.3	49.2	48.1	47.5	44.5								
RUN 33/1 315	47.5	48.4	49.1	49.9	49.8	49.0	48.4	48.2	47.3	43.3								
TAPE 400	45.7	46.3	46.7	47.4	48.2	48.4	48.8	47.9	46.8	43.3								
BAR 29.6 HG 500	42.8	43.7	45.7	47.2	48.4	49.3	49.4	48.7	47.3	42.3								
(100223. N/M2) 630	45.0	46.9	48.3	49.7	52.3	52.0	52.5	51.4	49.3	43.8								
TAMB 45. DEG F 800	47.1	48.8	49.7	51.8	54.7	55.0	54.4	53.9	51.6	44.7								
(285. DEG K) 1000	45.2	46.0	50.6	53.2	56.8	57.7	56.7	56.3	54.0	46.1								
T-ET 46. DEG F 1250	47.3	57.2	60.5	64.8	67.4	69.3	69.1	65.8	62.4	50.8								
(278. DEG K) 1600	46.1	52.5	54.6	58.2	61.8	62.4	61.9	58.9	56.2	46.3								
HACT 5.37 GM/M3 2000	49.0	43.3	45.2	47.5	49.6	50.1	49.7	48.4	48.6	37.9								
(.00307 LB/M3) 2500	41.3	42.2	45.8	48.1	48.7	49.2	51.4	50.1	44.3	35.1								
NFA 5409. RPM 3150	39.2	41.1	43.8	46.6	48.4	49.3	49.8	51.8	47.5	34.7								
(573. RAD/SEC) 4000	41.7	42.8	46.2	49.7	52.9	52.8	53.3	54.8	52.8	38.8								
NFK 5344. RPM 5050	40.1	42.0	45.1	48.4	51.9	53.8	53.7	55.9	51.8	39.1								
(560. RAD/SEC) 6300	39.2	42.0	44.8	48.1	51.2	52.8	54.1	54.7	50.5	38.8								
NFB 8023. RPM 8000	36.6	39.4	42.8	45.4	49.7	51.4	51.8	51.6	44.8	31.4								
(824. RAD/SEC) 10000	35.5	37.6	41.3	45.3	48.8	50.0	50.5	51.3	43.8	28.4								
NO. OF BLADES 15 12500	32.4	35.1	39.8	44.8	47.2	48.8	48.7	48.5	39.8	22.8								
FAN TIP SPEED 16000	26.5	29.5	34.1	38.9	42.8	43.0	44.2	41.7	31.4	12.1								
477. FT/SEC 20000	28.9	24.7	30.2	34.7	38.3	38.1	37.8	36.7	24.2									
25000	13.3	16.0	23.7	28.1	30.3	30.7	28.7	24.3	18.7									
31500	0.9	8.2	14.8	18.5	20.9	19.8	18.6	18.3										
40000				1.3	2.8	1.1												
50000																		
63000																		
80000																		
OVERALL CALCULATED	57.3	61.5	64.8	68.8	69.7	71.3	71.1	68.9	66.8	58.9								
PNDB	67.1	71.3	74.1	78.6	79.9	81.3	81.2	78.7	76.4	68.6								

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 12 DAY 20 HR. 17.0

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	76.9	74.1	71.7	71.4	70.4	71.0	70.7	73.5	70.1	70.9								100.2
VEHICLE R-55	125	73.4	71.4	70.2	73.1	70.4	71.1	73.2	75.2	70.6	70.6								107.8
CONFIG 10R	160	69.1	69.1	69.7	69.6	69.9	71.4	72.9	75.5	70.1	70.4								107.4
LOC SCHENECTADY	200	67.6	68.6	69.4	70.9	73.1	73.0	75.4	77.2	81.1	81.1								109.2
DATE 12/10/74	250	71.9	72.4	73.1	73.6	74.6	75.1	76.1	76.7	79.1	79.6								109.3
RUN 33/2	315	73.9	73.9	74.9	75.1	75.4	74.8	75.6	77.2	78.6	79.0								109.8
TAPE	400	72.1	72.1	71.9	72.6	73.4	74.1	74.9	76.0	80.6	78.0								109.0
BAR 29.6 HG	500	69.6	69.6	70.7	72.1	73.4	74.4	76.2	77.5	81.1	78.1								109.2
(99923. N/M2)	630	71.4	72.9	73.4	74.7	76.9	78.4	78.7	79.7	82.8	78.1								111.5
TAMB 44. DEG F	800	73.6	75.1	74.6	77.1	78.9	80.1	80.1	81.8	81.3	78.9								112.5
(280. DEG K)	1000	71.4	72.4	74.7	76.4	79.4	81.1	82.9	84.0	84.3	78.9								114.1
TRET 30. DEG F	1250	71.2	73.9	77.7	79.9	83.6	85.1	86.6	87.8	87.6	80.9								117.5
(272. DEG K)	1600	74.9	80.9	80.0	90.2	92.0	93.8	92.6	89.2	90.6	81.1								124.0
HACT 4.83 GM/M3 %	2000	69.8	70.4	72.6	75.8	77.8	78.6	78.8	78.5	79.4	74.6								110.4
(.00483 G/M3)	2500	67.7	68.9	70.9	72.5	74.8	74.1	75.1	76.8	76.2	71.6								107.1
NFA 6241. RPM	3150	67.7	69.4	71.1	74.8	76.8	77.8	79.1	82.5	81.2	74.8								111.4
(653. RAD/SEC)	4000	68.9	69.8	72.9	76.5	79.5	80.8	81.8	84.7	82.4	76.6								113.5
NFK 6333. RPM	5000	69.2	70.7	73.4	76.5	79.9	81.9	83.9	86.1	84.1	77.5								115.6
(663. RAD/SEC)	6300	69.7	71.8	73.5	77.1	79.7	82.9	85.5	86.8	84.3	78.3								115.9
NFB 8023. RPM	8000	67.9	69.5	72.5	75.3	78.3	81.7	84.0	85.0	81.2	75.0								114.3
(924. RAD/SEC)	10000	68.8	70.1	73.1	76.4	80.4	82.5	84.7	86.9	83.3	77.1								115.8
NO. OF BLADES 15	12500	68.5	69.9	73.4	78.3	79.9	83.4	85.6	87.3	82.9	77.3								116.5
FAN TIP SPEED	16000	68.2	67.8	71.3	75.3	79.8	81.9	84.4	85.4	81.8	75.5								115.2
949. FT/SEC	20000	67.1	68.3	72.5	76.6	79.7	82.4	85.5	86.3	82.8	76.3								117.2
	25000	67.8	68.3	73.3	76.5	79.6	81.8	83.8	85.7	80.8	75.6								116.3
	31500	66.4	68.3	73.4	78.0	83.5	82.3	83.6	85.8	80.1	73.4								117.1
	40000	64.7	67.1	69.8	74.5	77.2	79.5	80.6	82.3	77.8	68.7								115.5
	50000	65.3	68.3	67.1	70.9	73.8	74.5	74.8	77.8	74.8	65.4								112.7
	63000	65.8	69.3	66.8	69.4	68.9	69.8	68.5	78.7	69.5	63.8								111.4
	80000	66.8	70.5	67.5	69.8	69.8	68.5	67.6	68.1	68.3	63.8								115.1
OVERALL MEASURED																			
OVERALL CALCULATED		85.2	84.9	89.7	93.1	95.2	97.1	97.8	96.5	97.1	92.4								120.7
	PWL	95.5	90.5	101.8	105.1	107.1	108.8	108.9	109.5	108.7	102.8								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 20 HR. 17.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)												
		62.	71.	81.	91.	101.	111.	124.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.
	FREQ.	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	54.2	52.1	50.0	49.8	48.7	49.4	47.6	49.0	51.5	49.8							
VEHICLE R-SS	125	47.6	49.2	48.4	51.5	48.6	48.8	50.0	50.7	51.9	49.4							
CONFIG 16R	160	46.2	46.9	47.8	47.9	48.0	49.0	49.7	50.8	52.3	48.9							
LOC SCHENECTADY	200	44.6	46.3	47.5	49.1	51.2	51.2	52.1	52.5	54.1	50.4							
DATE 12/10/74	250	48.8	50.0	51.1	51.7	52.8	52.8	52.7	51.8	52.8	48.7							
RUN 33/2	315	50.7	51.4	52.8	53.2	53.3	52.2	52.1	52.2	51.3	48.5							
TAPE	400	48.9	49.6	49.7	50.6	51.2	51.4	51.3	50.9	53.2	47.5							
BAR 29.6 HG	500	46.3	47.0	48.4	50.0	51.1	51.5	52.4	52.2	53.5	48.5							
(99923. N/M2)	630	47.9	50.1	51.1	52.4	54.5	55.4	54.8	54.4	55.1	48.3							
TAMB 44. DEG F	800	50.0	52.2	52.0	54.8	56.4	57.0	56.2	55.4	53.4	46.7							
(280. DEG K)	1000	47.6	49.3	52.1	53.9	56.8	57.9	58.8	58.3	56.2	46.4							
THET 39. DEG F	1250	47.2	50.7	55.0	57.3	60.2	61.8	62.3	61.1	59.2	48.0							
(277. DEG K)	1600	50.8	57.5	63.1	67.4	69.0	70.3	68.1	63.1	61.9	47.8							
HACT 4.83 GM/M3	2000	44.6	46.8	49.5	52.0	53.9	54.9	53.9	52.1	50.3	40.9							
(.00483 KG/M3)	2500	43.2	45.2	47.6	49.4	50.7	50.2	50.2	49.4	44.8	37.4							
NFA 6241. RPM	3150	42.9	45.3	47.6	50.6	53.2	53.6	53.8	55.5	51.3	39.9							
(653. RAD/SEC)	4000	43.6	45.3	48.9	52.7	55.5	55.3	56.0	57.1	51.8	40.0							
NFK 6333. RPM	5000	43.6	46.0	49.1	52.4	55.7	57.0	57.9	60.2	53.1	40.8							
(663. RAD/SEC)	6300	43.4	45.5	48.6	52.3	54.7	57.3	58.6	58.0	52.0	39.6							
NFD 8823. RPM	8000	40.3	42.9	46.5	49.5	53.3	54.9	55.8	54.6	47.0	34.4							
(924. RAD/SEC)	10000	38.7	41.9	45.3	49.0	52.8	54.1	54.8	54.4	46.4	31.9							
NO. OF BLADES 15	12500	36.6	39.4	43.6	48.8	50.0	52.6	53.0	51.7	42.1	28.4							
FAN TIP SPEED	16000	30.2	33.5	37.9	42.1	45.5	47.3	47.5	44.7	33.7	18.1							
549. FT/SEC	20000	25.7	28.9	34.3	38.8	41.4	42.6	43.0	41.0	26.3	3.8							
	25000	17.8	21.7	28.2	31.9	34.3	34.7	33.2	28.8	12.9								
	31500	5.8	11.2	18.3	23.5	25.1	24.5	21.1	14.3									
	40000				5.2	8.8	4.8	0.5										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.0	63.1	66.2	69.5	71.3	72.5	71.5	69.7	67.5	59.7							
PNDB		70.7	74.6	78.5	82.0	83.8	84.9	83.9	82.0	79.3	68.2							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 20 HR. 17.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	72.1	72.6	71.2	71.1	71.9	71.4	71.7	76.5	80.3	84.4								109.7
125	79.4	79.1	76.9	75.4	73.9	73.9	76.7	78.7	80.3	83.4								111.9
160	72.6	72.4	72.9	73.4	73.2	75.1	76.4	79.2	81.8	84.1								111.1
200	70.6	71.6	72.4	74.4	76.9	76.9	78.4	80.0	83.1	84.8								112.2
250	74.9	76.4	76.4	76.9	77.9	78.6	79.1	80.5	82.3	83.6								112.8
315	77.1	77.4	77.2	78.1	78.7	78.1	78.6	80.7	81.8	82.8								113.0
400	75.4	74.9	75.2	75.6	76.9	77.1	78.1	79.7	81.6	82.1								111.8
500	72.9	73.1	74.4	75.1	76.7	77.4	79.2	80.5	81.8	81.6								111.8
630	74.1	74.9	76.2	77.4	79.4	81.4	81.9	82.7	82.8	81.4								113.8
800	75.9	76.9	76.9	79.1	80.7	81.3	82.6	83.5	83.3	81.6								114.6
1000	73.9	74.6	76.9	78.9	81.4	82.8	84.4	85.2	84.8	81.4								115.8
1250	73.4	76.1	79.0	80.9	82.7	84.3	86.1	87.2	87.4	82.4								117.5
1600	78.4	80.9	85.0	83.5	88.2	92.6	91.9	92.7	93.4	85.1								123.4
2000	75.2	77.9	82.1	80.0	84.5	89.6	89.4	90.0	89.9	81.9								120.4
2500	71.0	71.9	74.9	76.3	77.8	77.8	77.1	78.5	77.2	75.6								110.3
3150	71.2	72.6	75.1	77.5	80.3	80.8	82.3	84.5	80.4	77.1								113.8
4000	71.9	73.8	77.1	80.5	82.7	83.2	85.0	87.7	84.9	79.3								116.7
5000	71.9	73.2	76.6	79.5	83.2	85.4	86.9	90.6	86.1	80.0								118.5
6300	72.5	74.3	77.3	79.9	83.4	85.2	88.5	90.4	86.0	79.8								118.8
8000	71.4	73.0	76.2	79.0	82.5	86.0	88.0	88.8	83.5	78.4								116.1
10000	71.0	73.1	77.6	80.4	83.9	86.2	89.2	90.4	85.0	79.3								119.4
12500	71.2	73.2	77.9	82.1	84.4	86.9	89.6	90.6	85.6	79.8								120.0
16000	69.0	71.1	75.1	79.0	82.5	85.2	87.9	89.4	83.0	78.5								118.7
20000	69.6	71.6	76.8	80.4	83.5	86.1	88.5	90.8	84.5	78.8								120.2
25000	69.5	71.8	77.1	81.0	83.8	85.8	88.3	89.7	84.3	78.6								120.4
31500	68.9	71.8	77.7	81.5	84.0	85.5	88.1	88.5	83.1	76.4								120.8
40000	66.9	70.6	74.3	78.5	81.2	83.0	84.6	85.6	80.8	71.5								119.3
50000	65.6	69.3	70.1	74.2	76.5	78.5	79.1	80.5	76.6	67.1								116.3
63000	65.3	70.3	66.7	70.7	70.6	72.6	71.8	73.0	69.7	65.0								113.1
80000	66.0	70.8	67.5	69.2	69.0	68.5	67.6	68.6	67.5	65.8								115.2
OVERALL MEASURED																		
OVERALL CALCULATED	88.1	89.4	91.9	93.5	98.4	99.0	100.4	101.8	99.5	95.7								132.2
PNDB	98.8	100.5	103.5	104.5	107.2	110.0	110.5	112.6	111.2	106.0								

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

SIDELINE 200. FT. (60.96 M)
VEHICLE R-95
CONFIG 10R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/3
TAPE
BAR 29.6 MG (99923. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
HACT 4.83 GM/M3 (.00483 KG/M3)
NFA 7015. RPM (734. RAD/SEC)
NFK 7119. RPM (745. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 812. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.4	50.6	49.5	49.5	50.2	49.2	48.6	52.0	53.8	54.3							
125	55.6	57.0	55.1	53.7	52.1	51.6	53.5	54.2	53.7	53.1							
160	49.7	50.2	51.1	51.6	51.3	52.7	53.2	54.6	55.0	53.6							
200	47.6	49.3	50.5	52.6	54.9	54.4	55.1	55.2	56.1	54.2							
250	51.8	54.3	54.4	55.0	55.8	56.1	55.7	55.6	55.2	52.7							
315	54.0	54.9	55.1	56.2	56.5	55.5	55.1	55.7	54.6	51.0							
400	52.1	52.3	53.0	53.8	54.7	54.4	54.5	54.6	54.2	50.8							
500	49.5	50.5	52.2	53.0	54.4	54.5	55.4	55.2	54.3	50.0							
630	50.7	52.1	53.8	55.2	57.0	58.4	58.0	57.4	55.1	49.5							
800	52.3	54.0	54.5	56.8	58.2	58.3	58.7	57.8	55.4	49.5							
1000	50.1	51.6	54.3	56.4	58.8	59.7	60.3	59.5	56.7	48.9							
1250	49.5	53.0	56.3	58.3	59.9	61.0	61.8	61.3	58.9	49.5							
1600	54.3	57.5	62.1	60.7	63.3	64.1	63.4	66.6	64.7	51.8							
2000	50.9	54.3	59.0	57.0	61.4	63.0	64.7	63.6	60.8	48.1							
2500	46.5	48.2	51.6	53.1	54.4	53.9	52.2	51.9	47.8	41.4							
3150	46.4	48.6	51.6	54.1	56.7	56.8	57.1	57.5	50.6	42.2							
4000	46.6	49.3	53.2	56.7	58.7	58.6	59.3	60.1	54.3	43.3							
5000	46.3	48.5	52.4	55.4	58.9	60.5	60.9	62.7	55.1	43.3							
6300	46.1	48.5	52.1	55.1	58.4	59.5	61.6	61.5	53.8	41.3							
8000	43.8	46.4	50.2	53.2	56.8	59.2	59.8	58.3	49.3	37.1							
10000	41.7	44.9	50.0	53.0	56.3	57.8	59.3	57.9	48.1	34.1							
12500	39.4	42.7	48.1	52.3	54.5	56.1	57.0	55.0	44.8	28.9							
16000	33.0	36.7	41.7	45.9	49.0	50.5	51.0	48.7	35.7	18.1							
20000	26.2	32.2	38.5	42.5	45.1	46.3	46.0	43.5	28.8	6.8							
25000	20.3	25.2	32.0	36.4	38.6	38.7	37.7	32.8	16.4								
31500	8.3	14.7	22.5	27.9	28.6	27.7	25.6	17.8									
40000			4.2	9.2	10.8	9.3	4.5										
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.0	69.7	68.1	68.8	71.5	73.0	73.3	72.9	69.8	63.4							
PNDB	74.1	76.6	80.1	80.9	83.8	86.0	85.4	85.1	81.8	71.9							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 20 HR. 17.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT.
(5. MI)
VEHICLE R-55
CONFIG 10R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/4
TAPE
BAR 29.6 HG
(99923. N/M2)
TAMB 44. DEG F
(280. DEG K)
TWET 39. DEG F
(277. DEG K)
MACT 4.83 GM/M3
(.00483 KG/M3)
NFA 7799. RPM
(817. RAD/SEC)
NFK 7914. RPM
(829. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
681. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
50																		
63																		
80																		
100	71.6	73.1	73.2	73.9	74.9	74.4	74.9	79.0	84.3	87.6								112.8
125	75.6	75.9	75.4	77.4	77.4	78.4	79.4	82.0	84.8	87.1								114.2
160	75.4	75.1	75.4	76.1	76.2	77.9	79.9	82.5	85.6	87.6								114.4
200	73.4	73.9	74.9	77.4	79.9	79.9	81.1	83.5	86.3	88.8								115.5
250	78.9	80.4	81.4	82.1	83.1	83.6	84.9	85.5	87.8	88.3								117.9
315	79.6	80.1	80.4	80.9	81.7	81.3	82.4	83.5	85.8	87.1								116.3
400	77.9	78.1	78.4	78.4	79.7	80.4	81.4	83.2	85.1	86.3								115.2
500	75.6	75.6	76.7	77.6	79.9	81.1	82.4	83.5	85.1	85.1								114.9
630	76.4	77.4	78.9	80.2	82.4	83.4	84.2	85.2	85.8	85.4								116.5
800	78.4	79.1	79.9	81.4	83.2	84.1	84.9	85.5	85.8	84.9								117.1
1000	76.1	76.4	79.2	81.4	83.4	84.1	85.6	87.0	85.8	83.1								117.2
1250	75.9	77.6	80.5	82.4	84.2	85.8	86.4	88.0	87.6	83.6								118.4
1600	77.4	79.4	80.5	83.0	86.5	87.6	86.1	88.0	88.6	82.9								119.2
2000	76.0	80.1	84.3	88.2	91.8	92.6	89.9	91.0	90.4	86.4								123.1
2500	73.7	74.6	77.9	79.8	81.0	81.1	80.4	81.2	80.7	78.8								113.5
3150	73.5	75.4	77.9	80.0	83.0	83.0	84.1	85.0	81.4	78.6								115.5
4000	75.7	77.8	81.4	84.5	86.7	87.2	89.8	91.4	87.1	82.8								120.6
5000	74.4	76.0	79.1	82.0	85.7	86.7	89.7	91.6	86.8	81.5								120.2
6300	75.2	78.7	81.2	83.1	87.4	88.4	93.0	93.4	88.5	82.5								122.4
8000	73.9	75.3	79.5	81.8	85.8	88.2	90.7	91.5	85.5	80.4								120.7
10000	74.0	76.3	80.8	84.1	86.7	90.0	91.7	93.4	87.0	81.8								122.3
12500	74.0	76.4	81.1	84.8	87.9	90.9	92.8	93.8	87.6	82.8								123.3
16000	72.2	74.1	78.8	82.5	86.3	88.9	91.1	91.6	85.5	80.8								121.7
20000	72.6	75.3	80.3	84.1	87.5	89.9	92.8	93.6	87.3	81.8								123.7
25000	72.7	75.5	80.8	84.7	87.8	90.6	93.1	94.2	87.8	82.3								124.8
31500	72.4	76.1	81.2	85.0	88.0	89.3	90.8	92.0	86.4	79.7								124.2
40000	70.2	73.3	78.1	82.3	85.0	86.5	87.9	89.1	83.8	75.0								122.7
50000	67.3	71.6	73.6	77.7	80.0	82.7	83.1	84.0	80.0	70.1								123.0
63000	66.0	70.8	68.2	72.9	73.6	75.6	75.3	76.2	73.0	66.0								115.9
80000	69.0	71.3	67.7	70.0	69.3	69.5	68.6	70.1	68.8	66.1								115.9
OVERALL MEASURED																		134.8
OVERALL CALCULATED	89.9	91.4	94.1	96.9	99.7	101.4	103.0	104.1	100.9	98.9								
PNDB	101.0	102.5	105.5	108.2	111.2	112.1	113.4	114.4	111.9	108.9								

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 20 HR. 17.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 16R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/4
TAPE
BAR 29.6 HG (99923. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
HACT 4.83 GM/M3 (.00483 KG/M3)
NFA 7799. RPM (817. RAD/SEC)
NFK 7914. RPM (829. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 681. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.9	51.1	51.5	52.3	53.2	52.2	51.8	54.5	57.8	57.5							
125	53.8	53.7	53.6	55.7	55.6	56.1	56.3	57.4	58.2	56.9							
160	52.5	52.9	53.6	54.4	54.3	55.5	56.7	57.8	58.8	57.1							
200	50.4	51.6	53.0	55.6	57.9	57.4	57.8	58.7	59.4	58.2							
250	55.8	58.0	59.4	60.2	61.1	61.1	61.5	60.6	60.7	57.5							
315	54.5	57.6	58.3	58.9	59.5	58.7	58.9	58.5	58.6	56.0							
400	54.6	55.6	56.2	56.3	57.4	57.6	57.8	58.1	57.7	55.0							
500	52.3	53.0	54.4	55.5	57.6	58.3	58.7	58.2	57.5	53.5							
630	52.9	54.6	56.6	57.9	60.0	60.4	60.3	59.9	58.1	53.5							
800	54.8	56.2	57.5	59.0	61.7	61.0	60.9	59.9	57.9	52.7							
1000	52.4	53.3	56.6	58.9	60.8	60.9	61.5	61.3	57.7	50.6							
1250	52.0	54.5	57.8	59.8	61.4	62.5	62.1	62.1	59.2	50.8							
1600	53.3	56.0	57.6	60.2	63.5	64.1	61.6	61.9	59.9	49.6							
2000	51.6	56.6	61.2	65.3	68.6	66.9	65.2	64.6	61.3	52.6							
2500	49.2	50.9	54.6	56.6	57.7	57.2	55.4	54.6	51.3	44.7							
3150	48.7	51.3	54.3	56.8	59.4	58.8	58.8	58.0	51.6	43.7							
4000	50.4	53.3	57.4	60.7	62.7	62.6	64.0	63.8	56.5	46.8							
5000	48.8	51.3	54.9	57.9	61.4	61.8	63.7	63.7	55.6	44.8							
6300	48.9	51.3	56.3	58.3	62.4	62.8	66.1	64.5	56.3	44.1							
8000	46.3	48.7	53.5	56.0	59.8	61.4	62.6	61.1	51.3	39.1							
10000	44.7	48.1	53.3	56.8	59.1	61.6	61.8	60.9	50.1	38.6							
12500	42.1	45.9	51.4	55.3	58.0	60.1	60.3	58.2	46.8	31.9							
16000	36.2	39.7	45.4	49.4	52.8	54.3	54.3	51.0	38.2	20.4							
20000	31.2	35.9	42.0	46.3	49.1	50.1	50.2	46.2	31.5	0.0							
25000	23.5	29.0	35.7	40.1	42.6	43.4	42.4	37.3	19.0								
31500	11.8	18.9	26.0	30.5	32.6	31.5	28.3	21.3	0.8								
40000		0.5	7.9	13.0	14.6	12.8	7.7										
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.5	67.4	69.6	72.1	74.5	74.9	74.8	74.2	71.1	66.8							
PNDB	75.9	78.5	82.0	85.0	87.7	88.0	87.4	87.0	82.4	74.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 20 HR. 17.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	71.4	72.4	72.4	73.6	74.9	74.4	74.9	79.0	83.8	87.1								112.4
VEHICLE R-55 125	77.1	75.6	75.7	77.4	77.9	78.4	79.9	81.5	83.6	87.4								114.1
CONFIG 16R 160	75.9	75.6	75.9	76.1	76.4	78.4	79.9	82.7	85.1	87.9								114.5
LOC SCHENECTADY 200	73.4	73.9	75.2	77.4	79.4	80.1	81.6	83.7	86.8	88.3								115.8
DATE 12/10/74 250	79.4	81.4	81.9	82.9	83.9	84.1	85.6	86.5	88.3	88.8								118.6
RUN 33/5 315	79.6	79.4	80.4	80.9	81.7	81.6	82.1	84.0	86.1	87.1								110.4
TAPE 400	78.4	78.4	78.9	79.4	79.9	80.6	81.4	83.7	85.1	86.3								115.4
BAR 29.6 HG 500	75.4	76.1	76.9	77.9	80.2	81.4	82.2	84.0	84.8	85.4								115.1
(99923. N/M2) 630	76.1	77.6	78.7	80.2	82.2	83.6	84.2	85.0	85.8	85.1								116.4
TAMB 44. DEG F 800	77.9	78.9	79.7	80.9	83.2	84.1	84.9	85.5	86.1	84.6								117.0
(280. DEG K) 1000	76.4	76.9	78.7	81.1	83.2	84.8	85.9	86.5	85.8	83.9								117.3
TWET 39. DEG F 1250	75.9	77.6	80.7	82.4	84.0	85.8	86.6	86.2	86.9	83.9								118.4
(277. DEG K) 1600	77.4	78.6	80.3	83.0	86.5	88.3	86.6	88.2	88.6	82.9								119.4
HACT 4.63 GM/M3 2000	76.7	80.4	84.8	88.0	91.8	92.8	89.6	90.5	90.6	85.9								123.1
(.00483 KG/M3) 2500	73.7	74.9	77.9	79.8	80.5	80.3	80.6	81.5	80.4	79.3								113.3
NFA 7798. RPM 3150	73.7	75.6	77.9	80.3	82.9	82.5	83.8	85.0	81.7	78.8								115.4
(816. RAD/SEC) 4000	76.2	78.3	81.4	84.0	86.0	87.5	88.8	91.4	87.0	82.5								120.4
NFK 7913. RPM 5000	74.4	76.2	78.6	82.2	85.7	87.4	89.2	91.9	87.1	81.5								120.3
(829. RAD/SEC) 6300	75.0	77.2	81.0	83.4	86.9	88.9	92.5	93.9	88.8	82.8								122.4
NFD 8823. RPM 8000	73.9	75.8	78.7	82.5	85.6	88.9	90.7	91.3	85.2	80.4								120.6
(924. RAD/SEC) 10000	74.0	76.3	80.1	84.1	86.9	89.7	92.0	92.9	87.3	81.3								122.2
NO. OF BLADES 15 12500	74.2	76.4	80.9	84.8	87.1	91.1	92.3	93.8	87.6	82.3								123.2
FAN TIP SPEED 16000	72.2	74.8	78.6	83.0	85.8	88.4	91.4	91.9	85.7	80.8								121.8
881. FT/SEC 20000	72.9	76.3	80.3	84.1	87.2	90.1	92.8	93.8	87.5	81.8								123.8
25000	73.2	76.5	80.8	85.0	87.3	90.8	93.1	93.9	88.1	81.8								124.8
31500	72.6	76.1	80.7	85.3	87.8	89.8	91.6	92.3	86.6	79.4								124.6
40000	70.4	73.8	78.1	82.0	84.7	87.0	88.1	89.1	84.3	74.7								122.8
50000	67.3	71.8	73.4	78.4	80.0	83.2	82.8	84.2	80.0	69.6								120.1
63000	65.8	71.3	68.5	73.7	73.6	75.8	75.0	76.2	73.0	66.3								116.0
80000	67.5	71.5	67.7	71.7	69.3	69.8	68.9	70.1	68.3	65.8								116.2
OVERALL MEASURED																		
OVERALL CALCULATED	90.1	91.6	94.1	97.0	99.5	101.6	103.0	104.2	101.0	98.9								134.9
PNDB	101.2	102.9	105.6	108.2	111.1	112.3	113.1	114.6	112.1	108.8								

ORIGINAL PAGE IS OF POOR QUALITY

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 20 HR. 17.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 230. FT. (60.96 M)
VEHICLE R-SS
CONFIG 16R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/S
TAPE
BAR 29.5 HG (99923. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
HACT 4.83 GM/M3 (.00483 KG/M3)
NFA 7798. RPM (816. RAD/SEC)
NFK 7913. RPM (829. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 681. FT/SEC

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																		
63																		
80																		
100	48.7	50.3	50.7	52.0	53.2	52.2	51.8	54.5	57.3	57.0								
125	54.3	53.5	53.9	54.7	56.1	56.1	56.8	56.9	57.2	57.1								
160	53.0	53.4	54.1	54.4	54.5	56.0	56.7	58.1	58.3	57.4								
200	50.4	51.6	53.2	55.6	57.4	57.7	58.3	59.0	59.9	57.7								
250	56.3	59.0	59.9	61.0	61.8	61.6	62.2	61.6	61.2	58.9								
315	56.5	56.9	58.3	58.9	59.5	59.0	58.6	59.0	58.8	56.0								
400	55.1	55.8	56.7	57.3	57.7	57.9	57.8	58.6	57.7	55.0								
500	52.0	53.5	54.7	55.7	57.9	58.5	58.4	58.7	57.3	53.8								
630	52.7	54.9	56.3	57.9	59.8	60.7	60.3	59.6	58.1	53.3								
800	54.3	56.0	57.2	58.5	60.7	61.0	60.9	59.9	58.1	52.5								
1000	52.6	53.8	56.1	58.7	60.6	61.7	61.8	60.8	57.7	51.4								
1250	52.0	54.5	58.0	59.8	61.2	62.5	62.3	62.3	58.4	51.0								
1600	53.3	55.3	57.4	60.2	63.5	64.8	62.1	62.1	59.9	49.8								
2030	52.4	56.8	61.7	65.0	66.6	64.1	64.9	64.1	61.6	52.1								
2500	49.2	51.2	54.6	56.6	57.2	56.4	55.7	54.9	51.0	45.2								
3150	48.9	51.6	54.3	57.4	59.2	58.3	58.6	58.0	51.8	43.9								
4000	50.9	53.8	57.4	60.2	62.0	62.8	63.0	63.8	57.3	46.5								
5000	48.8	51.5	54.4	58.2	61.4	62.5	63.2	64.0	56.1	44.8								
6300	48.6	51.8	56.1	58.6	61.9	63.3	65.6	65.0	56.5	44.3								
8000	46.3	49.2	52.7	56.7	59.5	61.7	62.6	60.8	51.0	39.1								
10000	44.7	48.1	52.5	56.8	59.3	61.3	62.0	60.4	50.4	38.1								
12500	42.4	45.9	51.1	55.3	57.3	60.3	59.8	58.2	46.8	31.4								
16000	36.2	40.5	45.2	49.9	52.3	53.8	54.5	51.2	38.4	28.4								
20000	31.4	36.9	42.0	46.3	48.9	50.3	50.2	46.5	31.8	9.0								
25000	24.0	30.0	35.7	40.4	42.1	43.7	42.4	37.1	20.2									
31500	12.0	18.9	25.5	30.7	32.4	32.0	29.1	21.5	1.0									
40000		1.0	7.9	12.7	14.3	13.3	8.0											
50000																		
63000																		
80000																		
OVERALL CALCULATED	65.7	67.5	69.8	72.1	74.4	75.2	74.7	74.3	71.1	66.8								
PNDB	76.2	78.7	82.2	84.9	87.6	88.2	87.2	87.1	82.6	74.7								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 12 DAY 20 HR. 17.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE R-95
CONFIG 16R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/6
TAPE
BAR 29.6 HG (99923. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
WACT 4.63 GM/M3 (.00483 KG/M3)
NFA 5467. RPM (572. RAD/SEC)
NFK 5548. RPM (581. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 477. FT/SEC

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.16)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	70.6	75.4	77.4	77.1	76.2	73.6	67.7	70.5	75.3	76.1								108.7
125	65.9	69.9	66.9	71.9	67.4	67.6	70.4	71.7	73.1	75.1								104.3
160	66.6	66.1	66.2	66.4	67.4	68.4	69.4	71.5	73.6	75.1								103.4
200	66.1	66.4	66.9	67.9	70.4	70.6	72.1	73.0	75.6	77.1								105.3
250	69.1	69.6	70.1	70.6	71.4	72.3	72.1	73.7	74.8	75.6								105.9
315	70.6	71.1	71.4	71.6	72.2	71.8	72.1	73.0	74.6	74.6								106.1
400	69.6	69.4	69.9	69.6	70.7	71.1	71.4	73.5	74.8	74.8								105.4
500	67.6	67.4	68.2	69.1	70.9	71.6	73.2	74.5	75.1	73.6								105.5
630	69.4	69.9	70.9	72.4	74.7	76.1	76.4	77.5	77.8	75.4								108.8
800	72.4	73.6	72.9	74.9	77.4	76.3	78.6	79.7	80.1	77.4								111.0
1000	69.6	70.4	72.9	75.9	78.7	80.8	82.1	83.7	84.6	78.9								113.8
1250	70.9	80.6	84.0	89.7	90.0	92.8	92.9	91.7	91.1	82.9								123.6
1600	69.9	75.4	77.8	83.2	84.0	86.3	86.6	85.2	85.1	77.8								117.4
2000	65.7	66.9	68.3	70.5	72.5	74.3	74.1	75.0	75.9	71.6								106.4
2500	65.7	66.4	69.1	71.0	71.8	73.1	76.1	77.0	74.4	69.3								108.7
3150	64.0	65.6	67.4	70.5	72.8	73.3	74.8	78.0	77.7	70.1								107.3
4000	66.7	67.8	70.1	73.5	77.5	77.7	78.8	81.9	83.1	75.0								111.7
5000	65.7	67.2	69.9	72.7	76.4	78.7	79.7	84.1	83.6	74.7								112.5
6300	66.2	67.2	69.7	72.9	76.2	77.9	81.0	83.6	83.3	75.3								112.5
8000	65.2	66.3	68.5	71.5	75.3	77.7	80.0	82.5	79.2	73.1								111.1
10000	65.0	66.8	69.3	72.6	76.2	78.2	80.5	84.1	81.5	74.6								112.5
12500	65.5	66.7	69.9	73.6	78.4	79.6	81.3	84.1	80.9	74.1								113.0
16000	63.7	65.1	68.1	71.5	75.8	77.2	80.9	82.9	79.5	73.5								112.1
20000	63.9	65.6	68.8	72.9	77.0	78.1	80.8	84.1	80.3	72.8								113.3
25000	64.7	65.8	68.8	72.7	76.3	76.8	79.3	81.7	79.1	71.6								112.4
31500	64.1	66.6	68.4	73.5	76.8	77.3	78.8	81.0	78.1	69.9								113.6
40000	65.2	67.6	66.8	70.5	73.2	74.8	75.9	78.3	75.3	66.5								111.7
50000	64.8	69.6	65.6	68.9	69.5	70.7	71.1	73.0	71.3	64.1								109.7
63000	66.0	71.3	66.0	69.7	68.1	68.1	66.8	68.2	67.0	64.3								110.8
80000	67.5	71.3	67.5	68.7	69.0	68.5	67.6	67.1	67.3	65.8								115.8
OVERALL MEASURED																		127.8
OVERALL CALCULATED	82.5	85.8	87.7	92.1	93.1	95.4	96.0	96.7	95.8	89.9								
PNDB	92.5	95.6	97.9	101.9	103.2	105.2	105.9	106.6	106.5	100.3								

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 10R
LOC SCHENECTADY
DATE 12/10/74
RUN 33/6
TAPE
BAR 29.6 HG (99923. N/M2)
TAMB 44. DEG F (280. DEG K)
TDET 39. DEG F (277. DEG K)
HACT 4.63 GM/M3 (.00403 KG/M3)
NFA 5467. RPM (572. RAD/SEC)
NFK 5548. RPM (581. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 477. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.9	53.3	55.7	55.5	54.4	51.4	44.6	46.0	48.8	46.0							
125	44.1	47.7	45.1	50.2	45.8	45.3	47.3	47.2	46.4	44.9							
160	43.7	43.9	44.3	44.8	45.5	46.0	46.2	46.8	46.8	44.8							
200	43.1	44.1	45.0	46.1	48.4	46.2	48.8	48.2	48.6	46.4							
250	46.0	47.2	48.1	48.7	49.3	49.8	48.7	48.8	47.7	44.7							
315	47.5	48.6	49.3	49.7	50.0	49.2	48.6	48.0	47.3	43.5							
400	46.4	46.8	47.7	47.6	48.4	48.4	47.8	46.4	47.4	43.5							
500	44.3	44.7	45.9	47.0	48.6	48.8	49.4	49.2	47.5	42.0							
630	45.9	47.1	48.6	50.2	52.3	53.2	52.5	52.1	50.1	43.5							
800	48.8	50.7	50.5	52.5	54.8	55.3	54.7	54.2	52.1	45.2							
1000	45.9	47.3	50.3	53.4	56.1	57.7	58.0	58.0	56.4	46.4							
1250	47.0	57.5	61.3	67.1	67.2	69.5	68.8	65.8	62.7	50.0							
1600	45.8	52.0	54.9	60.4	61.0	62.8	62.1	59.1	56.4	44.3							
2000	41.4	43.3	45.2	47.5	49.4	50.6	49.4	48.6	46.8	37.9							
2500	41.2	42.7	45.8	47.9	48.4	49.2	51.2	50.4	45.0	35.2							
3150	39.2	41.6	43.8	47.1	49.2	49.1	49.6	51.0	47.8	35.2							
4000	41.4	43.3	46.2	49.7	53.5	53.1	53.0	54.3	52.5	39.0							
5000	45.1	42.5	45.6	48.7	52.2	53.8	53.7	56.2	52.6	38.1							
6300	39.9	41.8	44.8	48.1	51.2	52.3	54.1	54.7	51.0	36.8							
8000	37.8	39.7	42.5	45.7	49.3	50.9	51.8	52.1	45.0	31.9							
10000	35.7	38.6	41.8	45.3	48.6	49.8	50.5	51.6	44.6	29.4							
12500	33.6	36.2	40.1	44.0	46.5	46.8	48.8	48.5	40.1	23.1							
16000	27.7	30.7	34.7	38.4	42.3	42.5	44.0	42.2	32.2	13.1							
20000	22.4	26.2	30.5	35.0	38.6	38.3	38.2	36.7	24.5								
25000	15.5	19.2	23.7	28.1	31.1	29.7	28.7	24.8	11.2								
31500	3.5	9.4	13.3	19.8	21.4	19.5	18.3	18.3									
40000				1.2	2.8	1.1											
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.9	62.0	64.6	69.0	69.6	71.4	70.7	69.8	66.2	57.8							
PNDB	67.3	71.7	74.5	78.8	79.8	81.4	81.0	79.8	76.8	68.7							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 8.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET (IN DEGREES (AND RADIANS)

	FREQ.	51. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. M)	100	79.7	76.2	80.2	82.7	82.8	81.4	79.8	73.2	70.5	74.3	76.7							113.5
VEHICLE B-55	125	78.0	84.4	78.2	87.5	78.4	87.0	84.0	70.2	72.0	72.0	75.2							104.4
CONFIG 17	160	86.5	86.2	88.4	87.0	87.5	87.1	88.3	70.0	71.5	73.5	75.4							103.8
LOC SCHENECTADY	200	84.7	84.7	85.6	88.7	88.5	60.8	70.3	72.7	73.7	75.3	77.6							105.5
DATE 12/11/74	250	87.9	88.2	89.4	70.2	70.5	71.1	72.3	72.7	73.4	74.7	75.6							100.0
RUN 36/1	315	78.0	78.2	71.1	71.8	71.8	71.8	71.8	72.5	72.7	73.8	74.6							100.1
TAPE	400	88.9	88.9	88.5	89.5	89.5	70.8	71.3	72.0	72.7	73.3	74.4							105.2
BAR 29.9 HG	500	86.5	86.2	88.6	87.7	88.3	70.2	71.8	73.0	73.4	73.8	73.9							105.0
(00934. N/M2)	630	89.3	88.7	89.7	71.0	79.8	74.4	76.5	76.5	76.5	76.5	74.4							109.4
TAMB 45. DEG F	800	77.6	89.9	78.4	72.0	73.6	79.4	78.0	76.5	76.9	77.0	73.7							108.7
(280. DEG K)	1000	87.9	87.9	88.4	71.8	72.8	74.9	76.0	77.7	78.9	79.0	73.6							109.2
THET 49. DEG F	1250	79.3	71.5	79.9	79.3	79.4	81.7	84.2	85.5	85.2	86.0	79.7							116.4
(278. DEG K)	1600	88.8	88.7	71.9	78.1	78.9	78.7	80.5	81.5	81.0	82.6	76.4							112.7
MACT 0.08 SM/M3	2000	84.6	85.3	86.6	88.6	78.7	79.9	72.5	72.7	73.2	73.3	69.9							105.1
(.09508. KG/M3)	2500	83.8	84.5	85.6	88.4	78.4	71.5	71.7	70.7	72.7	71.3	67.4							104.2
NPA 855. RPM	3150	82.9	83.3	85.6	88.2	71.2	73.7	73.9	74.4	76.5	75.3	69.1							108.7
(89A. RAD/SEC)	4000	88.3	88.8	89.3	72.2	78.4	77.5	80.1	79.8	82.0	81.8	75.6							112.3
NPC 855. RPM	5000	88.0	88.7	88.7	71.9	74.9	77.9	79.8	81.0	84.1	81.5	75.0							112.8
(90A. RAD/SEC)	6300	88.8	87.3	89.2	72.5	78.5	78.4	80.8	83.3	84.1	81.9	75.6							113.7
NPD 8823. RPM	8000	85.5	87.0	87.8	71.8	78.5	77.8	80.6	82.8	84.0	81.8	74.7							113.4
(924. RAD/SEC)	10000	83.5	85.3	84.8	88.4	72.3	78.4	78.4	81.1	82.6	77.9	72.1							111.5
NO. OF BLADES 15	12500	83.5	86.8	85.4	88.9	79.0	74.1	77.7	80.4	83.0	78.6	72.3							111.6
FAN TIP SPEED	16000	81.8	88.0	84.3	87.8	71.2	74.8	78.6	80.0	81.8	76.9	71.5							111.3
481. FT/SEC	20000	81.6	89.9	84.1	88.5	71.8	74.9	77.0	80.3	82.3	76.4	70.9							111.8
	25000	82.2	72.2	83.8	88.9	72.1	75.3	74.7	79.4	81.1	76.2	69.6							111.8
	31500	81.6	72.7	83.6	89.0	72.0	75.0	77.5	79.2	80.3	75.6	68.7							112.5
	40000	80.3	71.0	81.6	85.2	88.8	72.7	74.0	75.8	77.1	72.8	63.4							110.9
	50000	82.1	70.0	81.2	82.8	84.5	68.1	69.8	71.1	71.3	69.1	59.1							108.4
	63000	82.5	69.1	81.0	80.0	88.3	82.4	83.7	86.6	84.4	84.4	57.3							107.1
	80000	84.9	68.9	81.6	81.3	88.4	80.3	80.5	82.5	59.9	58.7	57.2							109.1
OVERALL MEASURED																			
OVERALL CALCULATED		89.4	84.8	84.8	87.4	88.8	98.1	91.8	93.3	94.5	92.9	88.7							125.4
	PNDB	92.1	92.9	94.5	97.0	98.4	101.3	103.2	104.2	105.8	104.8	99.8							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — MODEL SHOWN PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY) — PROC. DATE = MONTH 12 DAY 10 HR. 8.7

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PROG.	53. (0.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	123. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	59.0	53.5	50.1	41.0	41.2	50.7	50.6	50.2	46.0	47.7	46.6						
VEHICLE 0-55 125	44.2	43.6	46.0	45.7	46.1	46.1	45.7	47.1	47.4	45.3	44.0						
CONFIG 17 160	42.6	43.3	44.2	45.1	45.8	45.3	45.0	46.0	46.8	46.7	44.9						
LOC SCHENECTADY 200	40.8	41.7	43.3	44.8	44.7	47.7	47.8	49.4	48.9	48.3	47.8						
DATE 12/11/74 250	43.9	45.1	47.0	48.2	48.6	49.1	49.7	49.3	48.6	47.8	44.8						
RUN 30/1 315	45.8	47.8	48.8	48.0	48.0	48.8	48.1	49.0	47.7	46.5	43.6						
TAPE 400	44.2	45.7	46.1	47.3	47.5	48.4	48.2	48.4	47.6	45.8	43.1						
BAR 29.8 HG 500	42.1	42.8	44.8	45.5	46.2	47.8	48.8	49.3	48.2	46.2	42.3						
(100934. N/M2) 630	44.8	45.2	46.9	48.6	48.6	52.8	53.6	52.6	51.1	48.8	42.8						
TAMB 45. DEG F 800	45.9	46.3	47.5	49.5	51.2	52.8	53.8	52.5	51.4	49.1	41.5						
(280. DEG K) 1000	43.3	44.2	45.4	48.4	48.3	51.9	52.8	53.8	53.2	48.8	41.2						
THET 42. DEG F 1250	47.3	47.5	52.7	56.8	58.7	58.8	58.9	61.2	59.3	57.6	48.8						
(278. DEG K) 1600	43.8	44.8	48.5	53.2	53.1	55.8	57.8	57.8	54.8	53.8	43.1						
MACT 0.00 GM/M3 2000	38.2	40.9	43.1	45.9	47.7	49.1	48.8	48.0	48.8	44.3	38.2						
(.00500 KG/M3) 2500	38.2	40.0	41.9	45.1	47.3	48.2	47.8	45.8	46.1	42.8	33.2						
NFA 9570. RPM 3150	34.8	38.4	41.6	44.6	47.8	50.1	49.8	49.9	49.5	45.5	34.2						
(998. RAD/SEC) 4000	30.7	42.7	44.8	48.2	51.6	53.4	53.5	54.1	55.3	48.9	39.8						
NFA 9581. RPM 5000	38.1	41.1	44.8	47.7	48.8	53.6	54.9	55.8	56.2	48.5	38.4						
(994. RAD/SEC) 6300	38.1	40.8	43.8	47.4	48.8	53.4	55.2	56.5	55.2	48.7	37.1						
NFD 8823. RPM 8000	36.3	39.3	41.2	45.8	48.6	51.7	53.8	54.4	53.8	47.4	33.4						
(924. RAD/SEC) 10000	32.5	36.8	37.8	41.8	44.9	47.8	50.8	51.1	50.1	41.8	28.9						
NO. OF BLADES 16 12500	28.8	34.9	34.9	39.1	42.4	44.2	46.9	47.8	47.4	37.7	21.4						
FAN TIP SPEED 16000	23.3	32.8	30.8	34.4	38.8	40.9	41.9	43.1	41.2	29.8	11.2						
481. FT/SEC 20000	17.8	28.4	24.7	30.3	33.9	36.8	37.2	37.8	34.9	20.7							
25000	8.8	23.8	17.2	23.7	27.5	30.8	29.6	28.8	24.3	8.3							
31500		12.1	8.5	13.8	17.4	19.7	19.7	18.7	8.5								
40000						1.8	0.3										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.5	58.4	61.7	64.5	65.4	66.2	66.0	66.7	65.8	62.9	56.8						
PNDB	69.7	67.6	78.1	73.2	74.8	77.4	78.7	78.2	78.1	74.3	64.6						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 PR. 8.7

MODEL SWING PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PRES.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PDL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5.5 M)	100	75.8	76.4	74.4	71.9	71.1	70.4	72.3	72.5	73.5	76.5	80.2							108.5
VEHICLE 9455	125	71.9	70.1	70.0	69.0	71.1	71.9	71.5	74.0	75.5	76.6	79.7							107.6
CONFIG 17	160	68.5	68.4	68.8	69.0	70.0	70.2	71.8	73.5	75.2	77.5	79.9							107.9
LOC SCHENECTADY	200	68.5	67.9	69.4	69.9	71.6	73.4	74.8	76.2	77.2	79.8	81.6							108.3
DATE 12/11/74	250	71.5	71.9	72.6	72.9	73.8	74.4	75.8	76.2	76.9	78.0	79.9							108.8
RUN 38/2	315	73.5	73.4	74.1	74.2	74.9	74.9	75.3	76.0	76.2	77.8	79.4							108.7
TAPP	400	71.8	71.4	72.1	72.4	73.9	73.9	74.5	75.5	76.4	77.9	79.6							108.7
BAR 28.9 HG	500	70.1	69.4	70.1	70.4	71.9	73.2	74.8	74.2	76.7	77.9	77.2							108.2
(97934. N/M**2)	630	72.5	71.4	72.9	73.7	74.2	77.4	78.3	78.8	78.2	79.5	77.7							111.3
TAMB 44. DEG F	800	74.4	73.4	74.4	74.7	77.1	77.7	79.3	79.0	79.4	79.5	78.9							111.5
(291. DEG K)	1000	71.4	70.9	71.4	73.2	75.4	76.9	79.7	80.5	81.4	80.5	78.8							111.7
TWET 40. DEG F	1250	70.4	69.4	71.4	74.0	76.2	78.0	80.5	81.5	82.5	81.5	77.2							112.7
(278. DEG K)	1600	72.7	72.2	75.6	78.0	81.5	82.7	84.5	84.7	86.2	86.1	79.9							117.1
MACH 0.77 CM/M3	2000	67.9	68.7	70.1	72.1	74.0	75.9	76.7	78.7	77.8	76.6	73.4							108.0
(.00477 LB/M3)	2500	67.4	67.2	68.4	70.6	73.0	74.3	73.5	73.8	73.2	71.8	70.9							106.2
NPA 4270. RPM	3150	68.4	68.2	70.1	72.6	74.0	76.4	79.2	80.4	82.2	78.3	74.8							111.8
(447. RAD/SEC)	4000	68.0	69.7	72.1	74.4	76.0	80.0	80.8	81.9	84.7	81.6	76.0							113.7
NPR 8356. RPM	5000	69.8	70.4	73.3	75.4	78.2	82.2	83.1	84.8	86.4	83.5	77.3							116.4
(875. RAD/SEC)	6300	70.4	72.0	73.2	76.3	78.6	81.9	84.8	86.6	87.8	84.0	78.8							117.8
NPD 8923. RPM	8000	69.3	71.4	72.8	76.3	78.4	82.1	84.9	86.6	87.5	83.7	78.8							117.1
(934. RAD/SEC)	10000	67.4	70.8	70.3	74.8	78.4	80.8	83.4	85.4	86.4	81.8	75.8							115.7
NO. OF BLADES 18	12500	68.4	71.8	68.7	73.4	78.1	77.8	81.3	84.5	86.3	80.8	74.9							115.1
FAN TIP SPEED	14000	64.8	72.8	67.8	71.4	76.8	74.3	80.8	84.3	85.4	79.8	73.1							114.8
940. FT/SEC	20000	66.3	74.2	68.4	72.3	76.7	78.3	81.4	84.4	86.3	80.8	73.4							115.8
	25000	67.4	74.5	68.6	73.1	76.8	78.4	81.3	83.2	84.4	78.8	73.9							115.5
	31500	66.5	78.2	69.1	73.9	76.9	78.1	81.8	83.3	83.8	78.9	71.8							116.3
	40000	64.1	65.7	66.9	70.1	73.1	76.6	78.8	80.3	80.6	75.8	66.4							114.9
	50000	64.1	65.6	66.9	67.7	68.5	72.3	73.8	74.8	75.3	72.0	62.6							111.9
	63000	69.7	65.9	64.4	66.5	64.8	68.7	67.5	68.2	67.5	65.8	57.9							110.4
	80000	72.7	67.5	70.3	67.3	67.8	68.4	61.5	63.3	60.9	60.7	57.4							114.4
OVERALL MEASURED																			
OVERALL CALCULATED		85.3	86.8	86.1	87.0	88.4	92.6	94.6	96.5	97.7	96.7	91.8							120.2
	PWCB	94.1	95.7	97.2	99.2	102.0	104.4	105.9	107.4	109.2	106.2	102.5							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 12 DAY 18 PG. 0.2

MODEL SCREEN PRESSURE LEVELS (SQ. DEG. P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PROG.	53. (0.92)	83. (1.04)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	59																	
	63																	
SIDELINE 200. FT.	90																	
(60.96 M)	100	51.4	53.7	52.3	49.5	46.9	48.7	50.1	49.4	49.8	50.0	50.1						
VEHICLE 0-55	125	47.3	47.3	48.7	48.1	51.5	49.7	49.2	50.8	50.9	50.1	49.4						
CONFIG 17	150	45.7	44.5	46.7	48.1	48.1	48.5	48.4	50.3	50.8	50.7	49.4						
LOC SCHENECTADY	200	44.6	44.9	47.1	48.8	49.8	51.4	51.6	52.9	52.4	52.8	51.8						
DATE 12/11/74	250	47.5	48.8	50.2	50.9	52.1	52.7	53.2	52.8	52.1	50.9	49.8						
RUN 36/2	315	49.4	50.2	51.8	52.1	52.9	52.8	52.6	52.5	51.2	50.5	49.3						
TAPE	400	47.5	48.1	49.8	50.2	50.8	51.7	51.8	51.9	51.3	49.8	47.3						
BAR 30.0 IN HG	500	45.7	46.8	47.5	48.2	48.7	50.0	51.0	52.5	51.5	49.4	45.8						
(101.6 MB)	630	44.1	47.0	50.1	51.3	52.0	53.8	54.3	55.0	53.8	51.0	45.8						
TAMB 46. DEG F	800	45.7	49.8	51.5	52.2	52.8	53.5	53.2	53.0	53.0	51.8	44.8						
(281. DEG K)	1000	44.6	47.1	48.3	48.6	49.0	50.3	49.8	50.3	50.7	49.3	44.4						
TRET 48. DEG F	1250	45.4	45.5	46.2	46.3	46.4	46.5	46.2	46.2	46.0	46.1	44.3						
(279. DEG K)	1600	47.5	48.1	52.3	55.1	56.7	58.8	61.8	62.2	60.1	57.3	48.8						
MACT 0.77 SQ/M3	2000	42.5	44.4	46.8	48.8	51.1	52.4	53.8	52.6	50.8	47.5	39.7						
(.399 SQ/M3)	2500	41.8	42.7	44.7	47.4	49.8	51.8	49.6	48.8	48.6	42.9	36.7						
WFA 6279. GPM	3150	43.4	43.4	46.1	48.1	49.4	50.2	49.8	49.2	48.2	48.5	39.7						
(397. KG/SEC)	4000	43.3	44.4	47.8	48.4	49.2	50.4	48.8	48.1	47.1	48.9	40.8						
WFA 8394. GPM	5000	43.7	44.9	47.6	48.2	48.2	47.8	48.2	48.8	48.4	42.5	40.6						
(529. KG/SEC)	6300	43.7	45.6	47.8	48.3	48.0	47.6	48.2	48.7	48.7	41.7	40.2						
WFB 8823. GPM	8000	40.2	43.8	45.4	48.2	48.8	48.8	48.1	48.4	47.1	40.9	38.7						
(556. KG/SEC)	10030	34.3	41.5	42.1	47.3	48.1	48.4	48.8	48.4	43.9	44.1	38.4						
NO. OF BLADES 19	12500	34.5	38.8	38.2	43.7	46.8	48.8	48.5	51.8	48.7	48.8	33.8						
FAN TIP SPEED	16000	27.5	36.8	33.5	37.8	41.4	44.8	44.2	47.4	44.7	32.7	14.7						
968. FT/SEC	20000	21.7	32.7	29.8	34.1	37.8	38.8	41.8	41.8	38.8	24.2	8.8						
	25000	14.1	25.3	22.8	28.8	31.4	33.1	34.1	32.8	27.8	11.2							
	31500	8.4	9.8	12.8	18.1	22.3	23.7	24.8	20.7	13.8								
	40000					3.8	5.4	4.3	0.1									
	50000																	
	63000																	
	80000																	
AVERAGE CALCULATED		50.8	88.7	82.1	43.8	44.2	87.8	48.8	48.3	88.8	44.5	38.4						
PNDU		88.8	78.4	79.8	78.4	78.3	88.4	81.1	81.4	81.7	78.1	87.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 YR. 0.7

MODEL SWING PRESSURE LEVELS (50. DEG. P. 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.11)	133. (2.32)	149. (2.60)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL TP. PT.	80																		
(S. PL	100	68.3	71.4	71.6	73.0	74.1	74.7	74.4	77.2	75.2	68.3	63.0							100.4
VEHICLE 0-55	125	74.8	77.0	77.0	75.7	74.4	74.0	75.1	77.2	77.7	71.1	63.0							111.0
CONFIG 17	160	73.3	73.1	72.1	72.4	73.4	73.4	73.4	76.0	74.7	71.0	63.0							111.1
LOC SCHENECTADY	200	71.3	70.0	71.6	72.2	74.1	74.0	77.4	79.1	80.5	73.0	64.3							112.4
DATE 12/11/74	250	74.5	74.4	75.6	74.9	77.1	77.4	79.1	79.9	80.7	72.0	63.0							113.1
RUN 36/3	315	77.0	76.0	77.1	77.4	77.0	78.9	78.0	79.1	80.2	72.0	62.0							113.2
TAPE	400	74.0	74.4	74.0	75.2	76.4	76.4	77.0	78.6	79.5	71.0	62.3							111.9
BAR 30.0 IN HG	500	73.1	72.4	72.6	73.4	74.0	74.4	77.6	78.9	80.0	71.1	61.1							111.9
(30534. N/M2)	630	74.6	75.1	75.4	76.2	77.7	78.2	81.1	82.2	82.0	72.0	60.0							113.0
TAMB 45. DEG F	800	74.9	76.0	76.0	77.4	78.1	83.4	81.3	81.0	82.2	72.3	60.0							114.3
(280. DEG K)	1000	73.0	74.0	74.1	75.0	77.0	78.4	81.1	82.4	83.2	72.8	59.6							114.0
TWET 40. DEG F	1250	73.0	74.0	74.1	74.2	76.4	78.7	81.8	83.4	83.7	73.1	59.6							114.3
(278. DEG K)	1600	73.0	73.6	75.4	76.0	76.2	82.4	83.8	85.1	85.5	75.1	59.4							116.2
RHOT 0.00A GM/M3	2000	72.7	73.0	72.4	76.8	78.9	81.0	82.8	83.4	83.7	72.9	57.4							115.2
(.00504 LB/M3)	2500	70.4	72.5	71.6	74.4	76.9	77.0	74.1	75.4	76.2	75.0	74.8							109.0
NFA 707A. SQ IN	3150	78.4	76.8	78.1	75.6	77.5	80.0	81.3	81.1	82.2	70.4	73.3							113.1
(741. MAC/SEC)	4000	72.0	73.7	75.0	78.0	81.7	84.2	84.7	85.3	87.7	84.1	79.5							117.3
NFA 7173. SQ IN	5000	72.6	73.4	74.7	79.8	83.5	84.7	84.8	87.2	90.9	85.6	79.7							119.2
(751. MAC/SEC)	6300	72.6	73.5	74.0	79.2	83.0	84.7	84.8	89.3	91.6	86.3	80.6							120.6
NFE 8223. SQ IN	7900	72.5	74.4	74.3	80.0	83.9	86.3	86.2	90.4	91.5	86.5	80.4							122.7
(924. MAC/SEC)	10000	74.9	72.3	74.0	78.6	84.6	83.0	87.0	89.2	89.6	83.7	78.1							119.2
NO. OF BLADES IS	12500	70.4	72.2	73.2	76.6	80.9	81.4	83.8	87.0	89.3	83.9	77.3							118.1
FAN TIP SPEED	16000	68.7	72.2	71.6	75.8	78.9	81.7	84.7	87.4	88.4	82.2	77.2							117.0
810. FT/SEC	20000	68.7	72.1	72.3	75.7	79.1	81.2	84.1	87.2	89.3	82.5	76.2							119.0
	25000	68.0	74.4	72.5	76.8	79.7	81.8	84.8	87.8	88.8	82.3	76.3							119.3
	31500	67.5	74.4	72.4	77.0	80.6	83.3	84.6	88.0	87.5	81.4	74.8							118.6
	40000	68.8	70.8	70.4	74.1	77.4	79.4	82.4	83.2	83.6	79.1	69.8							117.5
	50000	67.4	68.2	68.0	70.8	73.1	75.2	78.4	79.2	78.8	74.0	65.8							115.3
	63000	64.9	65.3	67.8	68.2	67.9	69.8	72.8	71.2	72.8	68.9	64.0							112.4
	80000	73.8	67.8	70.8	67.9	64.8	64.0	64.8	67.9	67.6	67.3	65.0							119.9
OVERALL MEASURED																			
OVERALL CALCULATED		87.4	88.7	88.8	91.1	93.4	95.4	97.5	99.4	100.7	97.3	94.9							131.2
	PWBB	98.2	102.1	100.0	102.9	104.2	107.9	108.8	110.8	111.9	104.8	105.2							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE 9-55
CONFIG 17
LOC SCHENECTADY
DATE 12/11/74
RUN 36/3
TAPE
BAR 29.8 HG (00534. N/M2)
TAMB 45. DEG F (280. DEG K)
TWET 40. DEG F (278. DEG K)
HACT 5.00 GM/M3 (.00506 KG/M3)
NFA 7078. RPM (741. RAD/SEC)
NFR 7173. RPM (751. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 818. FT/SEC

FREQ.	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	53. (.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	123. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.6	48.7	49.6	49.2	49.5	49.0	49.2	49.1	50.8	53.8	53.8						
125	51.3	55.1	55.7	53.9	53.7	53.1	52.8	54.0	53.2	54.4	53.6						
160	48.7	50.2	49.9	50.6	51.4	51.5	53.0	53.7	54.1	54.8	53.4						
200	47.3	47.6	49.3	50.2	52.3	54.7	54.9	55.4	55.7	56.6	53.7						
250	50.5	51.3	53.2	54.9	55.2	55.3	56.6	56.5	55.8	55.5	53.0						
315	52.9	53.5	54.6	55.3	55.9	56.0	56.0	55.6	55.2	55.3	51.8						
400	50.3	51.4	52.3	53.0	53.6	54.2	54.9	55.0	54.4	54.2	51.0						
500	48.7	49.0	50.0	51.2	52.7	54.1	54.8	55.2	54.7	53.5	49.5						
630	50.1	51.7	52.6	53.8	55.4	56.8	58.2	58.3	56.6	54.8	49.0						
800	52.2	53.0	54.0	55.0	56.8	57.9	58.3	57.9	56.7	54.4	48.7						
1000	49.1	51.1	51.1	53.3	55.4	56.8	57.9	58.2	57.5	54.7	47.1						
1250	47.9	53.0	51.0	53.5	55.8	56.9	58.5	59.1	57.8	54.7	46.8						
1600	48.7	49.3	52.0	55.1	57.4	59.0	60.3	60.6	59.4	56.4	46.1						
2000	47.2	50.6	50.8	53.5	55.5	57.9	59.1	58.7	57.4	53.8	43.8						
2500	44.7	53.0	47.9	51.1	53.4	55.7	57.2	56.7	49.6	46.3	40.6						
3150	44.4	49.1	48.1	52.1	54.1	56.4	57.1	55.8	55.7	49.5	40.4						
4000	48.3	48.4	50.6	54.9	57.9	60.2	60.1	59.5	60.1	53.5	43.5						
5000	48.0	47.8	51.0	55.6	58.4	60.4	62.0	61.2	62.9	54.5	43.1						
6300	44.9	47.1	50.5	54.3	58.1	59.7	61.3	62.4	62.7	54.0	41.8						
8000	43.4	46.8	49.7	54.0	57.7	59.3	61.4	62.3	61.1	52.3	39.1						
10000	39.8	42.9	45.9	51.0	53.3	54.3	58.5	59.3	57.1	46.8	32.9						
12500	34.7	40.4	42.6	46.8	49.5	51.7	53.0	55.2	53.7	43.0	26.3						
16000	30.1	36.2	37.2	42.4	44.4	47.8	50.0	50.5	47.7	34.9	18.9						
20000	24.1	30.6	32.9	37.5	41.2	42.8	44.3	44.7	41.9	26.7	3.8						
25000	15.5	25.2	25.9	31.4	35.1	36.5	37.7	36.9	31.8	16.4							
31500	1.9	13.8	15.2	21.8	24.0	27.0	26.8	24.4	16.8								
40000				4.0	8.0	9.4	8.6	3.0									
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.8	65.0	64.8	66.8	66.8	70.3	71.4	71.6	71.2	67.3	62.8						
PNDB	72.0	77.5	75.8	70.1	71.6	83.4	84.3	84.0	84.3	78.8	70.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 8.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL)
	50																		
	63																		
RADIAL 17. FT.	80																		
(4. MI	100	69.8	71.4	73.1	72.9	74.1	74.4	74.1	74.7	78.2	83.8	87.4							112.5
VEHICLE P-55	125	74.5	76.9	75.4	75.4	77.1	77.7	78.4	79.9	81.5	84.1	86.6							114.1
CONFIG 17	160	75.5	75.6	75.6	75.9	74.1	74.4	78.9	80.2	82.0	85.1	87.6							114.5
LOC SCHENECTADY	200	74.3	73.1	74.1	75.4	77.1	79.6	80.4	82.1	83.5	86.6	88.8							115.7
DATE 12/11/74	250	79.8	78.9	80.9	81.6	82.4	83.6	84.8	85.6	86.2	88.1	88.6							118.5
T 16/4	315	80.0	79.4	79.6	80.4	80.6	81.7	81.8	82.4	83.7	85.8	87.1							116.5
PT	400	78.1	77.9	77.4	77.9	78.6	79.4	80.6	81.1	82.7	84.8	86.1							115.1
BAR 29.4 HG	500	78.3	75.4	78.1	78.7	77.9	79.4	81.1	82.2	83.2	84.8	84.9							114.8
(99534. N/M2)	630	78.9	78.9	78.1	78.7	80.9	82.7	84.1	84.9	84.7	85.8	84.6							116.7
TAMB 49. DEG F	800	79.1	78.4	78.9	79.9	80.9	82.0	83.1	84.6	84.7	85.3	84.4							116.7
(280. DEG K)	1000	78.8	78.1	78.9	78.4	80.6	81.7	83.3	84.9	85.5	84.8	83.1							116.3
TRET 49. DEG F	1250	79.7	79.2	78.6	79.8	80.4	82.2	84.1	85.4	85.7	85.1	82.8							116.6
(277. DEG K)	1600	79.4	79.4	78.9	78.5	80.5	82.5	83.6	84.1	85.7	83.9	81.4							116.1
WACT 5.68 GM/M3	2000	78.7	78.2	77.1	79.8	81.2	82.8	84.6	86.6	85.7	84.1	81.4							118.0
(.00506 KG/M3)	2500	73.9	73.7	74.6	77.4	78.0	79.3	78.8	78.9	79.7	79.4	78.8							112.3
NFA 7859. RPM	3150	73.2	73.2	74.8	77.1	79.5	81.3	81.0	81.8	82.7	79.9	77.6							113.8
(823. RAD/SEC)	4000	78.4	78.9	79.0	82.6	84.9	86.7	87.2	88.8	90.9	87.9	82.8							120.5
NFK 7967. RPM	5000	74.3	75.4	77.5	80.6	83.5	86.7	87.9	89.2	91.4	87.1	80.9							120.4
(834. RAD/SEC)	6300	78.4	77.7	80.5	83.4	86.8	89.7	91.2	93.3	94.6	88.5	82.3							123.6
NFD 8823. RPM	8000	75.3	77.2	79.3	83.2	86.3	89.1	91.4	93.7	94.2	88.5	82.9							123.8
(924. RAD/SEC)	10000	73.4	75.3	77.5	81.6	84.1	87.2	89.5	91.7	92.1	86.0	81.1							122.0
NO. OF BLADES 15	12500	73.3	74.5	76.2	79.4	82.3	84.6	87.6	91.1	91.6	85.1	79.8							120.6
FAN TIP SPEED	16000	71.4	74.5	75.3	78.8	82.2	84.9	87.9	90.9	90.6	84.9	79.7							120.9
886. FT/SEC	20000	70.9	75.1	75.0	79.2	82.1	84.9	87.9	91.0	91.3	85.2	79.5							121.0
	25000	71.5	76.2	76.4	80.1	83.2	86.8	88.3	91.8	92.1	86.3	80.3							123.1
	31500	70.7	76.2	76.6	80.7	83.8	86.3	88.6	90.6	90.3	85.4	77.9							123.2
	40000	68.9	73.7	73.9	77.9	80.9	83.8	86.1	87.2	87.1	82.4	73.1							121.6
	50000	67.9	68.2	71.0	73.5	76.1	79.2	82.1	82.2	82.1	78.1	68.3							118.8
	63000	66.4	66.8	68.5	68.2	70.4	72.6	75.0	74.2	74.7	72.2	64.7							114.9
	80000	73.0	68.1	70.6	67.8	68.3	68.9	69.8	68.7	68.9	67.5	65.9							116.2
OVERALL MEASURED																			
OVERALL CALCULATED		90.2	90.5	91.7	94.0	96.3	98.7	100.6	102.6	103.2	99.9	98.4							134.1
	PN	1.3	101.6	103.2	105.8	108.3	110.4	111.7	113.2	114.4	111.5	108.4							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 8.7

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	46.1	46.7	51.1	51.2	52.5	52.7	51.9	51.8	53.8	47.3	57.3						
125	52.8	54.1	53.2	53.8	55.5	55.8	56.1	56.8	56.9	57.4	56.4						
160	51.7	52.7	53.4	54.1	54.4	54.5	54.5	56.9	57.3	58.3	57.1						
200	50.3	50.1	51.8	53.5	55.3	57.9	57.9	58.8	58.7	59.6	57.9						
250	55.7	55.8	58.5	59.4	60.5	61.4	62.3	62.2	61.3	61.0	57.7						
315	56.9	56.2	57.1	58.3	58.7	59.5	59.2	58.9	58.7	58.6	56.0						
400	53.8	54.6	54.8	55.7	56.6	57.2	57.9	57.5	57.6	57.4	54.8						
500	50.9	52.0	53.5	54.4	55.7	57.1	58.3	58.4	58.0	57.0	53.3						
630	52.3	53.4	55.4	56.3	58.7	60.3	61.2	61.0	59.4	57.8	52.8						
800	54.4	54.8	56.0	57.5	58.5	60.4	60.0	60.7	59.2	57.4	52.2						
1000	51.8	52.4	53.8	55.8	58.2	59.0	60.2	60.7	59.8	56.7	50.8						
1250	50.7	51.2	53.5	56.3	57.8	59.4	60.8	61.1	59.8	56.7	49.8						
1600	50.2	51.3	53.5	55.8	57.7	59.5	60.1	59.6	59.6	55.2	48.1						
2000	51.2	51.9	53.6	56.7	58.3	60.8	62.9	61.9	59.4	55.1	47.8						
2500	48.2	49.2	50.9	54.1	55.9	59.9	64.9	63.9	63.1	60.0	44.8						
3150	47.1	48.4	50.6	53.6	58.1	57.7	58.8	56.6	55.7	50.0	42.7						
4000	49.8	51.6	54.8	58.7	61.7	62.7	62.6	63.0	63.3	47.3	46.8						
5000	47.5	49.8	52.8	56.4	58.4	62.4	63.0	63.2	63.4	46.8	44.3						
6300	48.6	51.4	55.0	58.6	60.8	64.7	65.5	66.4	65.7	46.2	43.8						
8000	46.1	49.5	52.7	57.2	60.4	63.0	64.6	65.6	63.8	44.3	41.6						
10000	42.3	45.9	49.4	54.0	58.8	59.6	62.0	61.8	59.6	49.1	35.9						
12500	39.4	42.6	45.6	49.6	52.8	54.7	56.8	58.5	56.0	44.3	28.8						
16000	32.9	38.5	41.0	45.4	48.1	51.0	53.2	54.0	49.9	37.7	19.4						
20000	26.3	33.6	35.6	41.0	44.2	46.6	48.1	48.4	43.9	29.5	6.7						
25000	18.2	27.0	29.9	34.9	38.6	40.5	41.2	41.2	35.3	16.4							
31500	4.6	19.6	19.5	25.5	29.0	30.9	30.8	28.1	19.5								
40000			1.1	7.7	11.5	13.1	12.4	7.0									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.7	65.8	67.4	69.5	71.6	73.5	74.2	74.5	73.7	70.2	66.5						
PNDB	75.1	76.6	79.0	82.1	84.7	86.9	88.8	87.2	86.5	81.4	73.6						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 8.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 0. 0. 0. 0. 0. 0. PNL
	50												
	63												
RADIAL 17. FT.	80												
(5. M)	100	69.5	71.1	72.6	72.9	73.1	74.2	74.1	75.2	79.0	83.8	87.6	112.6
VEHICLE R=55	125	74.8	76.9	76.1	75.4	74.4	77.2	78.6	79.7	81.7	84.3	86.9	114.2
CONFIG 17	160	75.8	75.4	75.4	75.9	76.1	76.2	78.6	80.2	82.2	85.6	87.9	114.6
LOC SCHENECTADY	200	73.8	72.9	74.1	75.7	77.4	79.0	80.1	82.1	83.5	86.6	89.1	115.8
DATE 12/11/74	250	79.8	78.6	80.4	81.4	82.4	83.9	84.3	85.9	86.5	88.1	89.3	118.6
RUN 36/9	315	79.8	79.4	79.8	80.2	81.1	81.7	81.6	82.6	83.7	85.6	87.8	116.6
TAPE	400	78.1	77.1	77.9	78.4	78.9	79.4	80.4	81.4	82.7	85.6	86.1	115.3
BAR 29.8 HG	500	76.1	75.4	75.6	76.7	77.4	79.4	81.1	82.4	83.2	85.1	84.6	114.9
(100534. N/M2)	630	77.1	76.6	77.9	78.9	80.7	82.4	83.9	84.7	84.7	85.3	84.9	116.6
TAMB 45. DEG F	800	78.9	78.1	78.9	79.7	81.9	82.9	83.8	84.4	84.7	85.6	84.6	116.9
(280. DEG K)	1000	78.4	78.4	78.6	78.7	80.6	81.9	83.1	84.1	85.7	85.3	83.1	116.3
THET 40. DEG F	1250	75.9	75.4	76.4	79.0	80.7	82.2	83.8	84.6	86.0	84.9	82.9	116.5
(278. DEG K)	1600	75.2	74.9	76.9	79.3	81.0	82.7	83.4	84.1	85.0	83.9	81.1	116.1
RACT 5.06 GM/M3	2000	77.2	76.5	78.9	79.8	82.7	86.0	87.1	88.1	86.7	84.4	81.9	118.2
(.00508 KG/M3)	2500	73.7	73.2	74.9	77.4	78.8	79.3	79.1	78.6	80.0	79.9	78.8	112.3
NFA 7890. RPM	3150	73.4	73.5	74.6	77.4	79.5	81.1	80.8	81.3	83.0	80.4	77.8	113.8
(826. RAD/SEC)	4000	78.1	78.7	78.3	82.8	85.5	87.2	87.2	89.5	91.7	87.9	83.3	120.9
NFK 7987. RPM	5000	74.8	75.7	77.7	80.8	83.7	86.4	87.6	89.4	91.6	87.3	81.7	120.5
(836. RAD/SEC)	6300	76.1	77.5	80.7	84.2	85.8	90.2	91.7	93.0	94.6	90.0	83.0	123.8
NFD 8823. RPM	8000	75.5	77.4	79.5	83.5	86.3	88.8	91.9	93.5	94.5	89.2	83.1	123.9
(924. RAD/SEC)	10000	74.1	75.8	77.8	81.8	84.4	87.4	91.2	92.2	92.1	86.0	81.3	122.4
NO. OF BLADES 15	12500	72.8	75.0	76.7	79.6	82.3	84.8	87.6	91.3	91.8	85.8	80.0	121.1
FAN TIP SPEED	16000	71.4	75.0	75.3	78.8	82.7	83.0	87.9	90.9	91.1	84.9	79.5	121.1
666. FT/SEC	20000	71.7	75.6	75.8	79.0	82.6	85.2	87.8	91.2	91.5	85.0	79.2	121.8
	25000	71.5	76.9	76.7	80.3	83.2	86.3	88.5	91.8	92.1	85.8	80.3	123.2
	31500	71.2	77.2	77.1	80.7	83.6	86.3	88.8	90.4	90.8	84.9	78.2	123.3
	40000	72.1	75.5	74.6	77.8	80.6	83.3	86.1	87.2	87.4	82.1	73.1	121.6
	50000	71.9	75.0	71.0	73.0	76.6	79.2	81.6	82.0	82.3	78.1	68.5	118.9
	63000	69.1	70.3	68.3	68.8	70.2	72.8	75.0	74.7	75.5	71.9	64.5	115.2
	80000	73.0	69.6	70.6	67.8	68.3	68.9	69.6	68.9	68.9	67.8	65.9	116.3
OVERALL MEASURED													
OVERALL CALCULATED		96.3	96.7	91.7	94.2	94.4	98.6	100.6	102.6	103.5	100.1	98.7	134.2
	PNDB	101.3	101.5	103.1	106.0	108.3	110.6	112.0	113.1	114.5	111.6	106.7	

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	69. (1.20)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	129. (2.13)	133. (2.32)	149. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
PR=0.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.9	48.4	50.6	51.2	51.5	52.4	51.9	52.1	54.5	47.3	57.5						
VEHICLE R-55	125	53.0	54.1	54.0	53.6	54.7	55.3	55.3	56.5	57.2	47.7	56.6						
CONFIG 17	160	51.9	52.5	53.2	54.1	54.4	54.3	55.2	56.9	57.6	48.8	57.4						
LOC SCHENECTADY	200	49.8	49.9	51.8	53.7	55.8	57.9	57.7	58.8	58.7	49.8	58.4						
DATE 12/11/74	250	54.7	55.5	58.0	59.4	60.5	61.8	61.8	62.5	61.6	61.0	58.5						
RUN 36/5	315	55.6	56.2	57.1	58.1	59.2	59.5	59.0	59.1	58.7	58.3	56.5						
TAPE	400	53.8	53.9	55.3	56.2	56.8	57.2	57.6	57.8	57.6	58.2	54.8						
BAR 29.8 HG	500	51.7	52.0	53.0	54.4	55.2	57.1	56.3	58.7	58.0	47.5	53.0						
(100934. N/M2)	630	52.6	53.2	55.1	56.8	56.4	60.0	60.9	60.8	59.4	47.6	53.0						
TAMB 45. DEG F	800	54.2	54.5	56.0	57.2	59.5	60.4	60.6	60.4	59.2	47.6	52.5						
(280. DEG K)	1000	51.6	52.6	53.6	56.1	56.2	59.3	59.9	60.0	60.0	47.2	50.6						
TWET 40. DEG F	1250	50.9	51.5	53.2	56.3	56.1	59.4	60.5	60.3	60.1	46.4	50.0						
(278. DEG K)	1600	49.9	50.8	53.5	56.4	56.2	59.8	60.3	59.6	58.9	45.2	47.8						
HACT 0.06 GM/M3	2000	51.7	52.1	53.3	56.5	58.8	62.0	63.4	61.4	60.4	45.3	46.1						
(.00004 KG/M3)	2500	48.0	48.7	51.1	54.1	56.6	58.0	59.2	58.7	58.4	40.5	44.6						
NFA 7860. RPM	3150	47.4	48.6	50.6	53.8	56.1	57.7	58.6	58.1	56.0	40.5	42.9						
(823. RAD/SEC)	4000	49.6	51.4	53.8	56.7	61.7	63.9	62.6	63.8	64.1	47.3	47.3						
NFK 7967. RPM	5000	48.0	50.1	53.0	56.6	59.7	62.9	62.8	63.4	63.7	46.3	45.1						
(834. RAD/SEC)	6300	48.4	51.1	55.2	59.3	60.8	64.2	66.0	66.1	65.7	44.7	44.6						
NFD 8823. RPM	8000	46.4	49.8	52.9	57.5	60.4	62.8	65.1	65.3	64.1	45.0	41.9						
(924. RAD/SEC)	10000	43.0	46.4	49.6	54.3	57.0	59.8	62.8	62.3	59.6	49.1	36.1						
NO. OF BLADES 15	12500	38.9	43.1	46.1	49.8	52.8	55.8	56.8	58.7	56.0	45.0	29.1						
FAN TIP SPEED	16000	32.9	39.0	41.0	45.4	49.8	51.5	53.2	54.0	50.4	37.7	19.1						
686. FT/SEC	20000	27.1	34.1	36.4	40.7	44.7	46.8	47.8	48.7	44.2	29.2	6.5						
	25000	14.2	27.7	30.2	35.2	38.1	41.0	41.4	41.2	35.3	17.9							
	31500	9.1	16.6	20.0	25.5	29.0	30.9	31.0	27.9	20.0								
	40000			1.8	7.5	11.3	12.9	12.4	7.0									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.8	65.5	67.3	69.7	71.7	73.6	74.4	74.5	73.0	70.3	66.8						
PNDB		79.1	78.5	78.7	82.3	84.7	86.4	87.1	87.1	86.8	81.8	73.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 YR. 74.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.7	77.7	81.7	83.4	81.6	82.6	80.0	74.5	70.2	74.8	77.2							114.6
125	69.0	66.2	89.7	87.4	71.6	69.1	68.0	70.2	71.5	72.3	74.9							104.3
160	66.2	85.9	86.4	88.4	87.4	86.4	84.0	69.5	71.2	73.0	74.9							103.4
200	64.7	64.4	85.9	86.7	84.1	69.4	70.8	73.0	73.4	75.3	76.9							105.3
250	68.2	68.4	69.6	70.4	71.1	71.6	72.5	72.7	73.2	74.5	75.1							106.0
315	70.2	69.7	70.4	70.7	71.4	71.6	72.0	71.7	72.7	73.5	74.9							105.9
400	68.3	68.7	68.6	89.4	89.1	70.1	71.0	71.7	72.7	74.0	74.4							105.1
500	66.3	66.2	86.4	87.9	89.1	70.2	71.8	73.2	73.7	74.0	73.7							105.1
630	69.1	68.7	89.7	71.2	72.7	74.4	76.3	76.5	77.0	76.0	74.4							109.3
800	71.1	69.9	70.1	72.2	74.4	75.2	75.8	76.5	77.2	77.3	74.2							108.8
1000	84.1	87.9	88.1	70.9	73.4	74.4	76.5	77.7	79.4	78.8	73.6							109.4
1250	72.1	71.2	75.1	78.7	78.9	81.6	83.7	85.5	85.2	85.8	79.9							116.2
1600	88.8	88.7	79.1	75.3	78.7	78.5	80.2	81.2	81.2	82.3	76.2							112.5
2000	84.9	85.3	86.9	88.8	78.5	79.9	73.5	73.0	73.0	73.8	69.9							105.4
2500	83.8	84.3	85.4	87.6	78.5	79.9	72.0	70.7	73.0	71.1	67.4							104.2
3150	83.3	83.5	85.6	87.9	71.0	74.0	73.9	74.4	76.5	75.8	69.4							106.8
4000	86.5	88.2	88.3	71.9	74.9	77.7	79.1	80.1	83.1	82.0	75.6							112.3
5000	86.3	86.7	88.2	71.6	74.5	77.9	79.8	81.3	83.8	81.2	74.7							112.7
6300	86.8	88.0	89.5	72.2	74.1	78.4	81.1	83.3	84.4	81.7	75.6							113.7
8000	85.7	87.0	88.3	72.0	75.0	78.1	80.6	82.8	84.2	81.1	75.2							113.4
10000	83.0	84.8	88.1	89.8	72.4	74.9	78.6	81.1	82.6	77.4	72.4							111.5
12500	83.5	84.8	84.7	89.1	73.0	74.8	78.0	80.4	83.0	78.3	72.8							111.8
16000	82.1	85.0	84.1	87.8	71.8	74.5	76.8	80.7	81.8	77.4	72.0							111.2
20000	81.4	84.9	84.3	88.7	71.9	74.9	77.0	79.8	82.5	76.4	70.5							111.7
25000	82.0	87.0	84.0	89.3	72.2	75.0	78.9	79.7	81.1	76.0	69.6							111.8
31500	80.6	87.5	84.1	88.7	72.3	75.5	77.2	79.5	80.5	75.8	68.2							112.6
40000	80.0	87.3	81.4	85.9	88.9	72.0	74.0	75.3	76.6	73.0	63.1							110.4
50000	81.3	87.0	81.0	85.2	88.8	87.6	89.5	89.8	71.3	68.8	59.8							108.0
63000	83.0	86.6	80.5	85.7	88.7	81.8	83.7	83.1	84.4	82.9	56.8							106.9
80000	83.9	84.4	81.4	87.5	88.0	59.3	59.5	59.0	59.1	58.2	56.7							110.4
OVERALL MEASURED																		
OVERALL CALCULATED	89.6	83.3	85.3	87.5	88.8	90.4	91.8	93.3	94.6	92.8	88.7							125.4
PNDB	99.3	93.0	94.8	96.8	99.2	101.4	102.8	104.2	105.7	104.7	99.9							

RADIAL 17. FT. (5. M)
VEHICLE P-55
COMPIC 17
LOC SCHENECTADY
DATE 12/11/74
RUN 36/A
TAPE
BAR 29.8 IN HG (00534. N/M2)
TAMB 45. DEG F (280. DEG K)
TWET 40. DEG F (278. DEG K)
HACT 5.06 GM/M3 (.00506. KG/M3)
NPA 5810. RPM (877. RAD/SEC)
NPK 5585. RPM (585. RAD/SEC)
NPD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 481. FT/SEC

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	57. (0.82)	69. (1.00)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	129. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	53.0	55.0	59.6	61.7	62.0	60.0	57.8	51.4	49.8	48.2	47.1						
125	45.2	43.4	47.5	45.4	50.0	46.3	45.7	47.1	46.9	45.6	44.7						
160	42.4	43.0	44.2	44.8	45.8	44.9	45.7	46.3	46.6	46.2	44.4						
200	40.8	41.4	43.6	44.7	44.3	47.4	48.3	49.7	48.7	48.3	46.9						
250	44.1	45.3	47.2	48.4	45.2	49.4	50.0	49.3	48.3	47.4	44.3						
315	48.1	46.5	47.9	48.6	49.4	49.9	49.4	48.2	47.7	46.3	43.8						
400	44.0	45.4	48.1	47.2	47.1	47.9	48.3	48.1	47.6	46.6	43.1						
500	41.9	42.8	43.7	45.7	47.0	47.9	48.9	49.5	48.5	46.4	42.1						
630	44.5	45.2	48.9	48.8	50.4	52.0	53.3	52.6	51.6	48.3	42.6						
800	48.4	48.3	47.2	49.7	52.0	52.7	52.7	52.5	51.7	49.3	42.9						
1000	43.1	44.2	45.1	48.3	50.8	51.8	53.3	53.6	53.7	50.6	41.2						
1250	47.1	47.3	52.0	56.0	54.3	58.7	60.4	61.2	59.3	57.4	47.1						
1600	43.6	44.6	48.8	52.4	52.9	54.8	56.7	56.7	55.1	53.6	42.9						
2000	38.4	40.9	43.3	45.5	47.5	49.1	49.8	48.2	46.8	44.8	38.2						
2500	38.2	39.8	41.7	44.3	46.0	48.0	48.1	45.8	46.4	41.7	33.2						
3150	37.3	38.7	41.6	44.3	47.8	50.4	49.8	49.2	49.5	46.0	34.5						
4000	40.0	42.0	44.8	47.9	51.4	53.7	54.5	54.3	55.6	51.4	39.8						
5000	38.4	41.1	43.5	47.4	50.4	53.8	54.9	55.2	55.9	50.2	38.1						
6300	38.1	41.7	44.0	47.3	50.3	53.4	55.4	56.5	55.4	49.4	37.1						
8000	36.6	39.3	41.7	46.0	49.2	52.0	53.8	54.7	53.8	48.9	33.9						
10000	32.0	35.5	37.9	42.8	45.0	48.6	50.2	51.1	50.1	45.5	27.2						
12500	28.6	32.9	34.1	39.3	42.5	45.0	47.2	47.8	47.4	37.5	21.9						
16000	23.6	29.0	29.7	34.4	37.9	41.0	42.1	43.8	41.2	30.1	11.7						
20000	18.7	23.4	24.9	30.5	34.0	36.6	37.2	37.3	35.2	20.7							
25000	8.7	17.8	17.4	24.2	27.6	29.8	29.8	29.0	24.3	8.1							
31500		8.9	7.0	13.5	17.8	20.2	19.4	17.0	8.8								
40000						1.8	0.3										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.7	58.9	62.3	64.7	66.7	66.9	66.9	66.8	65.9	62.8	55.9						
PNDB	65.8	67.8	70.1	73.8	75.5	77.8	78.3	78.3	78.3	74.8	64.8						

CONFIG 17
LOC SCHENECTADY
DATE 12/11/74
RUN 36/A
TAPE
BAR 29.9 HG
(100934. N/M2)
TAMB 45. DEG F
(280. DEG K)
TWET 40. DEG F
(278. DEG K)
WACT 5.06 GM/M3
(.00508 KG/M3)
NFA 8510. RPM
(877. RAD/SEC)
NFK 9594. RPM
(985. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
481. FT/SEC

SIDELINE 200. FT.
(60.96 M)
VEHICLE A-85

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 11 DAY 25 HR. 10.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE ROSS
CONFIG 18
LOC SCHENECTADY
DATE 11/22/74
RUN 23/1
TAPE
BAR 29.8 HG (100534. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 36. DEG F (275. DEG K)
MACT 4.45 GM/M3 (.00445 KG/M3)
NFA 5468. RPM (572. RAD/SEC)
NFK 5571. RPM (583. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 477. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.0	76.6	80.1	81.9	82.4	81.4	79.4	73.2	70.2	74.5	77.4							113.3
125	67.5	68.4	71.9	69.4	69.4	67.9	68.9	70.9	72.2	73.1	75.6							104.9
160	64.5	66.6	66.6	66.9	67.9	67.9	69.9	70.4	72.5	74.3	76.1							104.4
200	65.8	66.9	67.9	67.7	69.6	70.9	71.9	72.9	73.7	75.8	77.6							106.1
250	66.5	68.6	69.4	68.9	70.4	70.1	72.3	72.6	73.5	74.9	75.8							105.8
315	68.3	71.1	71.1	71.2	71.9	71.9	72.6	72.9	73.5	75.3	75.6							106.6
400	67.1	69.9	69.4	69.7	70.6	70.9	72.6	72.9	73.5	74.3	74.6							105.8
500	66.3	68.1	67.9	68.4	70.4	71.2	73.1	73.9	74.2	74.8	74.1							106.6
630	69.1	69.6	70.9	72.4	73.4	75.2	77.1	76.9	77.5	77.6	75.4							109.1
800	72.4	71.4	72.6	72.7	74.6	75.7	77.3	78.1	78.2	78.6	75.1							110.0
1000	67.9	70.1	70.4	73.2	74.6	76.7	78.6	79.9	80.5	80.6	74.4							111.1
1250	77.7	78.2	78.1	81.3	83.7	86.0	88.1	87.4	86.7	87.9	81.1							119.1
1600	74.2	75.7	77.1	79.0	82.2	83.5	85.6	84.9	85.0	84.9	78.4							116.9
2000	74.7	76.2	77.9	80.3	82.5	84.3	85.3	85.1	84.7	83.9	79.1							116.9
2500	76.2	78.5	79.9	82.1	84.8	87.5	88.8	88.9	92.0	89.7	83.3							121.2
3150	73.9	76.7	78.1	80.9	84.3	86.3	88.3	87.8	89.2	87.4	81.3							119.7
4000	72.6	76.0	77.3	80.6	84.3	85.7	88.5	89.3	89.9	86.9	81.0							120.0
5000	71.1	73.9	75.8	79.1	82.5	85.4	87.2	87.5	88.1	85.6	79.0							118.6
6300	69.4	72.5	74.5	78.3	81.4	83.7	86.2	87.0	87.4	84.3	78.3							117.7
8000	67.3	71.2	72.8	76.8	79.8	82.4	84.7	85.3	86.5	83.7	77.4							116.5
10000	66.9	70.8	71.8	76.3	79.6	81.5	83.8	85.0	86.6	83.3	78.3							116.3
12500	67.4	69.8	70.2	74.4	78.3	79.9	82.9	84.6	85.9	82.2	77.8							115.6
16000	64.7	67.5	67.4	72.3	74.8	77.3	80.5	83.2	83.6	79.7	76.0							113.8
20000	65.7	67.4	67.1	71.5	74.1	76.7	79.7	82.5	84.8	80.0	74.8							114.2
25000	67.7	68.8	66.4	70.4	72.1	74.7	77.9	79.7	81.0	77.4	71.7							112.2
31500	68.2	68.7	65.7	69.5	71.1	74.4	76.9	79.2	80.4	76.5	69.8							112.4
40000	69.3	69.4	65.5	69.0	69.0	71.2	74.6	75.9	77.4	73.8	66.0							111.2
50000	72.0	70.9	67.6	70.4	67.5	69.4	71.6	71.2	72.9	70.7	64.5							110.8
63000	76.0	73.2	69.0	71.1	68.4	69.1	69.5	68.0	69.0	67.5	64.8							113.6
80000	75.6	71.4	70.0	70.7	70.3	71.1	70.9	70.0	70.0	69.4	66.2							110.0
OVERALL MEASURED																		130.1
OVERALL CALCULATED																		
PNDB	97.9	100.2	101.5	103.9	106.7	108.7	110.5	111.0	112.2	110.4	105.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

PROC. DATE = MONTH 11 DAY 28 HR. 10.0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 200. FT.	50																	
(60.96 M)	63																	
VEHICLE R-55	80																	
CONFIG 18	100	49.4	53.9	58.1	60.2	60.8	59.7	57.2	50.1	45.8	48.3	47.3						
LCC SCHENECTADY	125	43.8	45.6	49.7	47.6	47.7	46.1	46.6	47.8	47.7	46.4	45.4						
DATE 11/22/74	160	40.7	43.7	44.4	45.1	46.1	46.0	47.5	47.2	47.8	47.5	45.6						
RUN 23/1	200	41.8	43.9	45.6	45.7	47.8	48.9	49.4	49.6	49.0	48.9	46.9						
TAPE	250	42.5	45.5	47.0	46.9	48.5	48.1	49.8	49.2	48.6	47.7	45.0						
BAR 29.8 HG	315	44.1	48.0	48.6	49.1	49.9	49.8	50.0	49.4	48.5	48.1	44.5						
(00534. N/M2)	400	42.8	46.6	46.8	47.5	48.6	48.7	49.9	49.3	47.9	46.9	43.3						
TAMB 40. DEG F	500	41.9	44.8	45.2	46.2	48.2	48.9	50.3	50.2	49.0	47.3	42.5						
(278. DEG K)	630	44.6	46.2	48.1	50.1	51.2	52.8	54.2	53.0	52.1	49.8	43.5						
T-ET 36. DEG F	800	47.7	47.8	49.7	50.2	52.3	53.2	54.3	54.2	52.7	50.6	43.0						
(275. DEG K)	1000	43.1	46.4	47.3	50.6	52.2	54.1	55.4	55.8	54.8	52.4	41.9						
HACT 4.45 GM/M3	1250	52.7	54.2	55.0	58.5	61.3	63.2	64.8	63.1	60.8	59.4	48.3						
(.00445 KG/M3)	1600	49.0	51.6	53.8	56.1	59.4	60.5	62.1	60.4	58.9	56.2	45.1						
NFA 5469. RPM	2000	49.2	51.9	54.3	57.2	59.5	61.1	61.6	60.4	58.4	54.8	45.4						
(572. RAD/SEC)	2500	50.5	54.0	56.2	58.9	61.6	64.2	64.9	63.9	65.4	60.3	49.2						
NFK 5571. RPM	3150	47.9	51.9	54.1	57.4	60.9	62.7	64.1	62.6	62.2	57.6	46.4						
(583. RAD/SEC)	4000	46.1	50.7	52.9	56.7	60.2	61.7	63.8	63.5	62.3	56.3	45.0						
NFD 6423. RPM	5000	44.2	48.4	51.1	54.9	58.4	61.2	62.3	61.4	60.2	54.6	42.3						
(824. RAD/SEC)	6300	41.7	46.1	49.0	53.3	56.8	58.7	60.5	60.2	58.5	52.0	39.9						
NO. OF BLADES 18	8000	38.2	43.6	46.2	50.7	54.0	56.3	57.9	57.1	56.1	49.5	36.1						
FAN TIP SPEED	10000	35.8	41.5	43.6	48.8	52.3	53.9	55.3	55.1	54.1	46.4	33.1						
477. FT/SEC	12500	33.5	37.9	39.7	44.6	48.8	50.0	52.1	52.0	50.2	41.3	26.9						
	16000	26.2	31.5	33.0	38.9	41.6	43.8	45.8	46.3	43.0	32.5	15.6						
	20000	21.1	25.9	27.7	33.3	36.3	38.4	39.8	40.0	37.5	24.3	2.0						
	25000	14.4	19.6	19.8	25.3	27.5	29.4	30.8	29.1	24.2	9.8							
	31500	2.2	8.1	8.5	14.4	16.6	19.0	19.1	16.7	9.6								
	40000						0.0	0.0										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		59.7	62.8	65.0	67.7	70.3	71.9	73.0	72.0	71.2	67.1	58.2						
	PNDB	71.9	75.4	77.5	80.3	83.2	85.1	86.2	85.4	85.2	80.7	70.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 NO. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.8	76.6	73.4	72.2	71.4	71.9	73.9	73.4	74.0	77.6	80.6							108.9
125	69.0	70.6	72.4	71.4	72.1	71.9	72.4	73.9	75.2	77.3	80.1							108.0
160	64.0	69.6	69.9	70.7	71.1	71.2	73.4	74.4	75.7	78.1	80.1							108.0
200	67.8	68.6	70.1	70.4	72.1	73.9	75.1	76.4	77.2	80.3	81.6							109.6
250	70.0	71.4	72.1	72.9	73.9	74.1	75.6	76.4	77.0	79.1	80.1							109.5
315	71.8	74.1	73.9	74.2	75.1	75.4	76.6	76.6	77.0	78.6	79.3							110.1
400	70.6	72.4	72.1	73.2	73.6	74.7	75.9	76.4	77.0	78.6	78.6							109.4
500	69.6	70.4	70.4	71.4	73.6	74.7	76.4	76.9	78.0	78.6	77.9							109.3
630	71.4	72.1	73.1	74.9	76.4	78.2	79.1	79.7	80.0	80.3	78.1							111.7
800	73.2	73.6	74.9	75.2	77.6	78.4	80.3	80.6	80.7	80.6	77.9							112.5
1000	69.4	72.4	73.1	75.7	77.4	79.9	81.8	82.4	82.7	82.6	77.6							113.6
1250	72.9	74.2	76.1	76.5	80.9	82.7	84.6	84.9	85.0	84.9	78.9							116.3
1600	80.2	83.2	83.1	85.8	90.3	90.2	91.8	92.4	92.2	91.9	83.4							123.8
2000	76.9	79.2	80.9	83.6	86.2	88.0	89.1	88.4	88.2	86.1	80.6							120.3
2500	75.4	78.2	79.9	83.6	86.3	88.0	89.8	88.1	89.2	85.9	80.1							120.5
3150	78.7	81.0	83.1	86.7	89.3	91.5	93.3	93.1	95.5	92.9	85.8							125.2
4000	75.1	78.5	80.3	84.1	87.5	89.5	91.2	91.5	90.9	87.9	81.8							122.4
5000	75.1	78.7	80.8	84.6	87.5	90.4	91.4	91.7	92.1	88.1	81.5							122.9
6300	73.7	76.8	79.2	83.0	86.1	87.9	90.9	91.0	91.4	86.5	80.8							121.9
8000	70.8	75.2	77.5	81.8	84.3	86.9	88.7	89.8	90.0	86.0	80.2							120.5
10000	70.6	73.5	76.3	81.1	84.1	86.0	88.5	89.8	90.4	86.3	80.1							120.6
12500	69.9	72.8	75.5	79.7	83.1	84.6	87.4	88.6	89.9	84.7	78.8							119.7
16000	66.7	70.0	71.9	76.1	79.5	81.8	85.0	86.9	87.1	82.5	76.8							117.8
20000	66.7	69.1	70.6	75.8	79.4	81.2	85.4	87.3	89.3	83.3	76.3							118.8
25000	67.2	68.8	69.6	74.2	77.4	79.7	82.9	85.0	86.0	81.2	74.4							116.9
31500	67.2	68.5	68.9	73.3	76.4	79.4	82.2	84.0	84.9	80.3	72.3							115.9
40000	67.5	68.1	67.3	72.8	75.5	78.7	79.3	80.4	81.9	77.6	68.5							113.3
50000	70.0	69.1	67.6	68.9	70.5	72.6	76.1	76.2	76.9	73.9	65.8							113.5
63000	74.7	72.4	69.0	69.4	70.6	72.1	72.5	71.0	72.0	69.3	64.3							114.4
80000	74.6	72.2	71.3	71.7	73.7	74.6	75.1	74.2	73.2	69.9	66.7							120.2
OVERALL MEASURED																		
OVERALL CALCULATED	88.1	90.2	91.4	94.6	97.7	99.4	101.3	101.7	102.4	99.6	94.3							133.4
PNDB	102.8	103.3	105.0	108.1	111.0	112.7	114.4	114.5	115.6	113.5	107.9							

RADIAL 17. FT.
(5. MI)
VEHICLE R-SS
CONFIG 18
LOC SCHENECTADY
DATE 11/22/74
RUN 23/2
TAPE
BAR 29.8 HG
(100534. N/M2)
TAMB 40. DEG F
(278. DEG K)
TDEW 36. DEG F
(275. DEG K)
HACT 4.45 GM/M3
(.00445 KG/M3)
NFA 6256. RPM
(655. RAD/SEC)
NFK 6374. RPM
(667. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
546. FT/SEC

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	51.1	53.9	51.3	50.5	49.8	50.2	51.7	50.3	49.5	51.0	50.5						
VEHICLE R-SS	125	45.3	47.8	50.2	49.6	50.5	50.1	50.1	50.8	50.7	50.7	49.9						
CONFIG 18	160	44.2	46.7	47.7	48.8	49.4	49.3	51.0	51.2	51.1	51.3	49.6						
LOC SCHENECTADY	200	43.8	45.6	47.8	48.5	50.3	51.9	52.7	53.1	52.5	53.4	50.9						
DATE 11/22/74	250	46.0	48.3	49.7	50.9	52.0	52.1	53.1	53.0	52.1	52.0	49.2						
RUN 23/2	315	47.6	51.0	51.4	52.1	53.2	53.3	54.0	53.1	52.0	51.3	48.2						
TAPE	400	48.3	49.1	49.6	51.0	51.6	52.4	53.1	52.8	51.9	51.2	47.3						
BAR 29.8 HG	500	44.2	47.0	47.7	49.2	51.5	52.4	53.5	53.2	52.7	51.0	46.3						
(100534. N/M2)	630	46.8	48.7	50.4	52.6	54.2	55.6	56.2	55.8	54.4	52.6	48.3						
TAMB 40. DEG F	800	49.2	50.0	52.0	52.7	55.3	55.9	57.3	56.7	55.2	52.6	49.7						
(278. DEG K)	1000	44.6	48.6	50.1	53.1	54.7	54.3	56.7	56.3	57.0	54.4	45.1						
TWET 36. DEG F	1250	47.9	50.2	53.0	55.8	56.3	59.9	61.3	60.6	59.1	56.4	46.8						
(275. DEG K)	1600	55.8	59.1	59.8	62.9	67.2	67.3	68.3	67.9	66.1	63.2	50.1						
RHOI 0.45 GM/M3	2000	51.5	54.9	57.3	60.5	63.3	64.9	65.4	63.7	61.8	57.1	46.9						
(.00445 KG/M3)	2500	49.8	53.7	56.2	60.4	63.1	64.7	65.9	63.2	62.6	56.5	45.9						
NFA 6256. RPM	3150	52.7	56.2	59.1	63.1	66.4	67.9	69.1	67.8	66.5	63.1	50.9						
(655. RAD/SEC)	4000	49.6	53.2	55.9	60.2	63.7	65.5	66.6	65.8	63.3	57.3	45.8						
NFK 6374. RPM	5020	48.2	53.1	56.1	60.4	63.4	66.2	66.5	65.7	64.2	57.1	44.8						
(667. RAD/SEC)	6330	45.9	50.4	53.8	58.1	61.4	63.8	65.3	64.2	62.5	54.3	42.4						
NFD 8823. RPM	8000	41.7	47.6	50.9	55.7	58.5	60.8	61.9	61.6	59.4	51.8	38.9						
(924. RAD/SEC)	10000	39.6	44.5	48.1	53.5	56.8	58.4	60.1	59.8	58.1	49.4	34.9						
NO. OF BLADES 15	12500	36.0	40.8	44.8	49.9	53.5	54.8	56.6	56.0	54.2	43.8	27.9						
FAN TIP SPEED	16000	28.2	34.0	37.5	42.7	46.4	48.3	50.3	50.0	46.5	35.2	16.4						
948. FT/SEC	20000	22.1	27.7	31.2	37.5	41.5	42.9	45.6	44.7	42.8	27.5	3.5						
	25000	13.9	19.6	23.1	29.1	32.7	34.4	35.8	34.3	29.2	13.3							
	31500	1.2	7.9	11.8	18.1	21.8	24.9	24.3	21.4	14.1								
	40000				0.7	3.2	6.3	5.6	0.2									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.9	65.4	67.2	70.6	73.8	75.2	76.3	75.3	74.2	69.5	60.9						
PNLB		74.7	78.4	80.9	84.5	87.5	89.8	90.2	89.1	88.7	83.6	73.8						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 11 DAY 25 NO. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	67.8	72.1	72.4	71.4	72.4	72.2	73.1	73.4	76.5	80.8	84.6							110.2
125	74.3	79.6	78.1	74.4	77.4	75.4	76.1	77.7	79.0	81.1	84.4							112.6
160	70.8	73.1	72.9	73.9	74.6	73.9	76.6	77.7	79.7	82.3	84.1							111.7
200	70.6	71.4	72.4	73.2	75.1	77.1	78.1	79.4	81.0	83.3	85.6							112.9
250	73.5	75.4	75.9	76.1	77.1	77.9	79.3	79.9	81.2	83.1	84.3							113.4
315	74.8	76.9	77.1	77.4	77.9	78.7	79.6	79.8	80.7	82.6	83.6							113.5
400	74.1	75.6	75.4	76.2	76.3	77.4	79.1	79.6	80.0	81.6	83.1							112.7
500	71.6	73.4	73.4	74.4	76.9	77.4	79.1	79.9	81.0	81.9	81.9							112.4
630	73.9	74.6	76.4	77.7	78.9	80.7	82.6	83.2	83.9	83.1	81.9							114.9
800	75.6	76.1	77.1	78.4	79.9	81.2	83.3	83.4	83.2	83.3	81.1							115.2
1000	73.1	75.4	75.6	79.2	80.1	81.7	84.1	84.9	85.6	84.1	80.8							116.0
1250	74.4	76.4	77.6	80.5	82.7	84.5	85.8	86.4	86.9	84.9	80.6							117.6
1600	79.4	81.2	83.6	87.9	93.0	91.2	93.3	93.4	92.2	90.1	84.9							124.3
2000	81.2	83.2	86.1	89.1	91.3	92.3	94.3	94.4	93.2	90.1	85.4							125.3
2500	78.2	81.5	82.9	87.1	89.0	91.5	92.8	91.6	91.2	86.4	82.3							123.4
3150	79.4	82.2	84.9	88.7	91.3	93.0	95.0	94.1	95.2	90.9	85.3							125.9
4000	79.1	82.7	85.3	89.1	91.3	93.7	96.5	96.3	95.7	91.4	86.8							127.0
5000	78.8	82.4	84.5	89.1	92.0	92.9	95.7	96.0	94.8	90.1	85.8							126.5
6300	76.7	81.3	83.0	86.5	90.1	91.4	95.2	94.5	94.4	89.8	83.6							125.4
8000	74.8	78.9	81.3	86.8	87.8	90.6	93.8	94.0	93.8	88.7	82.9							124.4
10000	74.1	77.5	80.8	85.3	88.1	90.5	93.5	93.8	93.9	88.5	83.1							124.0
12500	73.4	76.3	79.5	84.2	86.6	88.9	91.4	93.1	92.6	87.4	82.3							123.5
16000	79.2	73.8	75.9	80.3	84.0	86.3	90.0	91.4	90.9	85.2	80.3							121.9
20000	70.2	73.9	76.3	80.3	83.6	86.6	89.4	92.8	92.1	85.3	79.5							122.6
25000	70.2	73.1	74.6	78.9	81.9	84.4	87.7	90.5	90.5	84.4	78.2							121.7
31500	69.2	72.3	73.4	78.3	80.9	83.4	86.7	89.8	88.4	83.5	76.5							121.2
40000	69.3	70.4	71.6	75.5	78.8	80.7	84.1	85.6	85.8	80.6	72.5							119.7
50000	71.8	70.9	69.9	72.2	74.3	76.9	81.1	80.5	80.9	76.9	68.5							117.5
63000	75.7	72.7	70.0	71.6	72.4	73.3	75.8	75.0	75.0	72.3	66.3							116.5
80000	75.9	72.4	72.8	73.7	75.5	75.3	77.1	76.7	75.2	72.4	68.2							121.8
OVERALL MEASURED																		
OVERALL CALCULATED	90.2	92.7	94.7	98.2	100.8	102.5	105.0	105.3	105.0	101.0	97.5							130.0
PNDB	102.7	103.7	107.8	111.2	113.7	115.4	117.8	117.7	117.4	114.0	109.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 11 DAY 29 HR. 10.7

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.1	49.4	50.3	49.7	50.8	50.4	50.9	50.3	52.0	54.3	54.5						
VEHICLE R-55	125	50.5	56.8	56.8	54.6	55.7	53.6	53.0	54.5	54.4	54.6	54.1						
CONFIG 18	160	46.9	50.2	50.7	52.1	52.9	52.0	54.2	54.4	55.1	55.5	53.6						
LOC SCHENECTADY	200	46.1	48.4	50.1	51.2	53.3	55.2	55.7	56.1	56.2	56.4	54.9						
DATE 11/22/74	250	49.5	52.3	53.5	54.1	55.2	55.0	56.8	56.5	56.3	56.0	53.5						
RUN 23/3	315	50.6	53.7	54.6	55.3	55.9	56.5	57.0	56.4	55.7	55.3	52.5						
TAPE	400	47.8	52.4	52.8	54.0	54.8	55.2	56.4	56.0	54.9	54.2	51.0						
BAR 29.8 HG	500	47.2	50.0	50.7	52.2	54.7	55.1	56.3	56.2	55.7	54.3	50.3						
(100534. N/M2)	630	49.3	51.2	51.6	53.3	56.7	58.3	59.7	59.3	58.1	55.3	50.0						
TAMB 40. DEG F	800	50.9	52.5	54.2	56.0	57.5	58.7	60.3	59.4	57.7	55.4	49.0						
(278. DEG K)	1000	49.3	51.6	52.6	55.6	57.7	59.1	60.0	60.0	59.3	55.9	48.1						
THET 36. DEG F	1250	49.4	52.5	54.5	57.8	60.1	61.7	62.5	62.1	60.3	56.4	47.0						
(275. DEG K)	1600	54.2	57.1	60.3	64.1	67.2	68.3	69.0	68.9	66.1	61.4	51.0						
HACT 4.45 GM/M3	2000	55.7	58.9	62.6	66.0	68.8	69.1	70.6	69.7	66.9	61.1	51.6						
(.00445 KG/M3)	2500	52.5	57.0	59.2	63.9	65.9	66.2	66.9	66.7	64.6	57.8	48.2						
NFA 7349. RPM	3150	53.4	57.4	60.8	65.1	67.9	69.4	70.9	68.8	66.2	61.1	50.4						
(770. RAD/SEC)	4000	52.6	57.4	60.9	65.2	67.9	69.7	71.0	70.5	68.1	63.0	50.8						
NFK 7182. RPM	5000	52.8	54.9	58.8	64.8	67.3	68.7	70.8	69.8	67.8	59.1	48.3						
(752. RAD/SEC)	6300	48.9	53.9	57.5	61.6	65.4	66.5	69.5	67.7	65.5	56.8	45.4						
NFD 6823. RPM	8000	45.7	51.3	54.7	60.8	62.8	64.5	66.2	65.8	63.4	54.5	41.6						
(924. RAD/SEC)	10000	43.1	48.2	52.6	57.8	60.8	62.8	65.1	63.8	61.4	51.6	37.8						
NO. OF BLADES 15	12500	39.5	44.4	48.9	54.4	57.8	59.8	60.6	60.5	57.2	46.6	31.4						
FAN TIP SPEED	16000	31.7	37.8	41.5	48.9	50.9	52.8	55.3	54.5	50.2	38.8	19.8						
815. FT/SEC	20000	25.6	32.4	36.9	42.8	45.8	47.6	49.8	49.5	44.7	29.3	6.6						
	25000	16.9	23.9	28.1	33.8	37.2	39.2	41.6	39.8	33.7	16.6							
	31500	3.2	11.4	16.3	22.9	26.3	28.8	28.8	26.4	17.6								
	40000				5.4	8.7	10.3	10.3	5.5									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.9	67.7	70.3	74.8	78.6	78.8	79.7	78.5	78.4	78.8	64.4						
PNRB		76.6	80.6	83.6	87.4	90.8	91.5	93.4	92.2	90.1	83.9	74.9						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PUNCH DATE = MONTH 11 DAY 25 NO. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.5	72.9	73.4	74.4	75.6	75.4	76.4	77.0	80.0	84.5	88.4							113.7
VEHICLE M-55	125	72.8	73.6	74.8	74.9	76.6	79.4	81.4	82.4	82.7	84.3	87.9							115.5
CONFIG 10	160	75.5	75.9	75.6	76.8	77.4	77.2	79.9	81.4	83.2	86.1	88.1							115.3
LOC SCHENECTADY,	200	79.3	74.6	74.9	74.4	78.6	80.1	81.6	83.1	83.7	84.5	89.3							118.4
DATE 11/22/74	250	83.3	78.3	83.1	81.1	81.6	82.6	84.3	85.6	86.5	88.3	89.3							118.4
RUN 23/4	315	80.8	79.9	80.4	80.9	81.1	82.2	82.8	83.1	84.2	86.3	87.3							117.6
TAPE	400	79.5	79.6	78.1	79.1	79.9	80.2	81.9	83.1	83.5	84.8	86.3							115.9
BAR 29.8 HG	500	79.4	78.4	78.1	79.1	79.6	79.9	82.1	83.4	83.7	85.1	84.9							115.6
(100536. N/M2)	630	78.8	77.4	78.1	80.6	81.9	83.2	84.8	85.7	85.5	85.5	85.6							117.4
TAMB 40. DEG F	800	82.1	78.1	79.4	81.1	83.4	83.7	85.3	86.1	86.0	85.4	84.8							118.0
(278. DEG K)	1000	77.1	78.1	78.6	80.6	82.1	84.2	84.1	86.9	87.8	85.8	83.6							118.1
T-CT 30. DEG F	1250	78.1	78.2	80.4	82.5	85.2	86.7	88.3	88.4	88.2	86.4	83.6							119.8
(275. DEG K)	1600	83.9	81.7	83.1	85.7	88.2	89.7	91.6	91.4	90.7	88.9	83.1							122.8
MACH 0.45 SM/M3	2000	88.6	82.5	81.6	84.9	87.2	94.3	100.4	101.4	99.5	94.9	90.9							131.6
(.00445 KG/M3)	2500	92.9	85.2	86.4	90.6	93.3	94.8	95.8	93.9	94.8	88.7	84.8							126.4
NFA 7812. RPM	3150	82.9	84.2	86.6	89.9	93.3	94.8	96.8	94.8	94.8	89.9	85.6							127.2
(818. RAD/SEC)	4000	85.1	84.5	89.8	92.9	95.3	97.2	99.2	99.5	99.4	94.9	90.8							130.4
NFK 7959. RPM	5000	82.1	84.2	87.8	89.3	93.2	95.2	97.9	97.2	94.9	91.8	86.2							128.4
(833. RAD/SEC)	6300	82.1	84.5	87.8	92.8	93.6	96.4	98.4	98.3	98.0	92.3	87.1							129.4
NFC 8463. RPM	8000	79.3	82.1	85.3	89.5	91.6	93.9	96.2	96.8	96.3	90.7	85.9							127.3
(924. RAD/SEC)	10000	79.1	81.3	85.1	88.8	91.9	94.8	96.5	97.8	97.1	91.8	85.8							127.8
NO. OF BLADES 15	12500	78.9	80.3	83.5	87.6	91.1	93.6	95.9	96.6	95.9	90.7	84.8							127.3
FAN TIP SPEED	16000	75.9	77.8	80.4	84.3	88.8	90.1	93.5	94.9	93.6	88.2	82.8							125.3
602. FT/SEC	20000	76.2	78.1	80.3	84.2	87.6	89.7	93.4	95.5	95.1	88.8	83.8							126.2
	25000	76.6	77.6	78.9	83.9	86.3	89.4	92.7	95.8	94.5	88.2	82.7							126.2
	31500	75.7	75.7	77.7	82.5	85.4	87.9	91.2	93.2	92.6	86.8	80.9							125.5
	40000	75.5	73.9	75.8	80.8	82.8	85.9	88.6	89.6	89.6	84.1	79.5							123.8
	50000	77.2	77.1	72.9	78.1	78.5	81.4	85.3	85.2	84.4	80.7	76.9							121.9
	63000	79.5	71.9	71.7	77.6	78.9	77.6	80.8	80.8	79.7	76.3	69.1							121.1
	80000	81.3	74.9	74.5	79.4	80.5	80.1	81.1	84.0	81.5	77.1	72.8							127.1
OVERALL MEASURED																			
OVERALL CALCULATED		95.5	96.9	98.2	101.6	104.2	106.1	108.3	108.6	108.2	103.6	100.8							140.1
	PNDB	108.2	110.4	111.5	114.3	116.9	118.7	120.6	120.7	120.7	116.7	113.4							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.1	50.2	51.3	52.7	54.0	53.7	54.2	54.8	55.5	56.0	56.3						
VEHICLE R-55	125	54.0	54.8	54.5	55.1	57.0	57.6	59.1	59.3	58.2	57.7	57.6						
CONFIG 18	160	51.6	53.0	53.4	54.8	55.6	55.3	57.5	58.2	58.6	59.3	57.6						
LOC SCHENECTADY	200	54.0	51.6	52.6	54.4	56.8	58.2	59.2	59.8	59.0	59.6	58.7						
DATE 11/22/74	250	55.9	55.8	57.7	59.1	59.7	60.6	61.8	62.2	61.6	61.2	58.5						
RUN 23/4	315	55.8	56.7	57.9	58.8	59.1	60.0	60.2	59.6	59.2	59.1	56.2						
TAPE	400	55.5	55.4	55.6	56.9	57.9	57.9	59.1	59.5	58.4	57.4	55.0						
BAR 29.8 HG	500	55.4	53.8	53.5	55.9	57.5	57.6	59.3	59.7	58.5	57.5	53.3						
(100534. N/M2)	630	54.3	53.9	55.4	58.3	59.7	60.8	61.9	61.8	60.1	57.8	53.8						
TAMB 40. DEG F	800	57.4	54.5	56.5	58.7	61.0	61.2	62.3	62.2	60.4	57.6	52.5						
(278. DEG K)	1000	52.3	54.4	55.6	58.0	59.7	61.6	62.9	62.8	61.3	57.7	51.1						
TWET 36. DEG F	1250	53.1	54.2	57.2	59.7	62.6	63.9	65.0	64.1	62.3	57.9	50.8						
(275. DEG K)	1600	55.7	57.6	59.8	62.8	65.4	66.8	66.1	66.9	64.6	58.2	49.8						
HACT 4.45 GM/M3	2000	63.2	68.1	68.1	71.7	74.0	75.1	76.9	76.7	73.1	65.8	57.1						
(.00445 KG/M3)	2500	57.2	60.7	62.7	67.3	70.1	71.5	71.7	68.9	67.4	59.3	50.7						
NFA 781.2. RPM	3150	54.9	59.4	62.8	66.3	69.9	71.2	72.6	69.6	69.0	60.1	50.7						
(818. RAD/SEC)	4000	58.5	61.2	65.4	68.4	71.4	73.2	74.6	73.8	71.8	64.3	54.8						
NFK 795.9. RPM	5000	55.2	58.6	62.3	66.1	69.7	71.4	73.0	71.2	69.8	60.8	49.6						
(833. RAD/SEC)	6300	54.4	58.1	61.5	67.0	68.9	71.5	72.8	71.4	70.0	60.0	48.6						
NFD 882.3. RPM	8000	50.2	54.6	58.4	62.9	65.7	67.8	69.4	68.6	65.9	56.5	44.6						
(924. RAD/SEC)	10000	48.0	52.0	56.9	61.5	64.5	66.4	68.1	67.1	64.6	54.1	40.4						
NO. OF BLADES 15	12500	45.0	48.4	52.9	57.8	61.5	63.8	65.1	64.0	60.2	49.8	33.9						
FAN TIP SPEED	16000	37.4	41.8	46.0	50.9	54.9	56.5	58.8	58.0	53.8	41.0	22.4						
682. FT/SEC	20000	31.6	36.7	40.9	46.0	49.8	51.4	53.6	53.0	47.7	33.0	10.3						
	25000	23.3	28.4	32.3	38.8	41.7	44.2	45.8	44.3	37.7	20.3							
	31500	9.7	15.1	20.5	27.3	30.8	32.5	33.3	30.7	21.9	1.1							
	40000			2.2	9.9	13.5	14.6	14.8	9.5									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		69.2	71.9	73.7	77.2	79.9	81.4	82.8	81.7	79.5	73.2	68.0						
PNDB		82.4	85.8	87.2	90.6	93.2	94.8	96.1	95.1	93.3	86.5	78.4						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 HR. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.3	73.4	74.1	75.4	75.9	76.2	78.1	79.7	80.5	83.6	87.6							113.7
VEHICLE R-55	125	77.3	78.4	77.1	77.9	78.5	79.4	81.6	82.9	83.2	85.1	88.1							115.8
CONFIG 18	160	76.0	77.1	76.6	77.4	78.1	78.4	80.9	82.2	83.7	85.3	87.6							115.5
LOC SCHENECTADY	200	75.5	74.9	75.1	77.1	79.1	80.4	81.4	83.1	84.2	86.8	88.8							116.3
DATE 11/22/74	250	79.0	78.9	79.9	80.8	81.8	82.6	84.6	85.9	86.7	87.8	89.3							118.4
RUN 23/5	315	79.5	79.9	79.9	80.6	81.6	81.7	82.8	84.6	84.5	85.8	87.6							117.1
TAPE	400	78.3	78.6	78.1	79.1	80.1	80.7	82.4	83.4	83.7	85.3	86.1							116.1
BAR 29.8 HG	500	76.6	76.9	76.4	78.1	79.6	80.2	82.9	84.2	83.7	85.1	85.1							115.8
(00534. N/M2)	630	78.1	77.6	78.6	80.6	82.1	83.2	85.4	86.2	85.5	85.9	85.1							117.6
TAMB 41. DEG F	800	81.3	78.9	80.1	81.6	83.6	84.2	85.6	86.2	86.0	85.6	84.4							118.1
(278. DEG K)	1000	77.1	77.9	78.4	80.8	82.4	84.2	86.1	87.1	87.2	85.8	83.6							118.2
TWET 36. DEG F	1250	77.9	78.4	80.1	82.7	84.9	86.5	88.6	88.1	88.2	85.9	83.9							119.8
(275. DEG K)	1600	79.9	81.4	82.9	85.5	88.0	90.0	91.3	90.9	90.0	86.6	83.4							122.3
HACT 4.15 GM/M3	2000	89.2	92.5	91.6	95.5	96.7	98.5	100.3	101.6	99.8	94.9	90.4							131.8
(.00415 KG/M3)	2500	82.4	84.5	86.4	90.3	93.3	94.8	95.3	93.9	93.8	88.4	84.9							126.3
NFA 7820. RPM	3150	82.4	84.2	86.9	90.1	93.0	94.8	96.8	95.1	95.8	90.2	85.8							127.2
(819. RAD/SEC)	4000	84.6	86.5	89.6	92.9	95.5	97.0	99.2	99.3	99.2	94.4	90.0							130.3
NFK 7959. RPM	5000	81.6	84.4	86.8	90.8	93.2	95.5	97.7	97.2	96.2	91.6	86.2							128.2
(833. RAD/SEC)	6300	81.9	84.8	86.8	91.5	93.6	97.0	98.5	98.1	98.7	91.8	86.8							129.4
NFD 8823. RPM	8000	79.1	82.2	85.1	88.5	91.3	94.1	96.5	97.5	96.1	90.8	84.9							127.6
(924. RAD/SEC)	10000	78.9	82.1	84.9	88.6	91.9	94.0	96.5	97.1	97.2	91.1	85.9							127.9
NO. OF BLADES 15	12500	78.7	80.8	83.5	87.7	90.9	92.9	95.9	96.7	95.9	90.5	85.1							127.3
FAN TIP SPEED	16000	76.0	78.3	80.4	84.4	88.1	90.4	93.0	94.5	93.5	87.5	82.8							125.0
883. FT/SEC	20000	76.5	78.2	80.1	84.5	87.4	89.5	93.2	95.3	94.6	88.0	83.1							125.9
	25000	76.9	77.4	78.9	83.7	86.4	88.7	92.9	94.5	94.1	88.4	82.4							125.9
	31500	76.3	76.5	77.9	82.2	85.4	87.6	91.2	93.2	92.6	86.5	79.8							125.4
	40000	74.9	74.6	75.2	80.2	82.5	85.1	88.5	89.6	89.3	84.0	75.7							123.7
	50000	78.6	72.5	73.0	78.5	79.9	81.2	85.4	85.1	84.7	80.5	71.7							121.9
	63000	80.2	72.9	73.2	78.6	79.1	79.6	81.3	81.8	81.5	76.3	70.1							122.2
	80000	82.3	76.1	77.4	81.6	81.9	82.6	84.8	85.7	84.4	79.1	72.7							129.3
OVERALL MEASURED																			
OVERALL CALCULATED		95.3	97.0	98.2	101.8	104.1	106.1	108.2	108.7	108.1	103.4	100.6							140.2
PNDB		108.1	110.4	111.4	114.6	117.0	118.6	120.6	120.7	120.5	116.4	113.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 10.7

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.6	50.7	52.1	53.7	54.3	54.4	55.9	56.6	56.0	57.0	57.5						
125	53.5	55.6	55.0	56.1	57.0	57.6	59.3	59.8	58.7	58.4	57.9						
160	52.1	54.2	54.4	55.5	56.4	56.5	58.5	58.9	59.1	58.5	57.1						
200	51.5	51.9	52.8	55.2	57.3	58.4	58.9	59.8	59.5	59.9	58.2						
250	54.9	55.8	57.5	58.8	60.0	60.6	62.1	62.5	61.8	60.7	58.5						
315	55.3	56.7	57.4	58.5	59.5	59.5	60.2	61.1	59.5	58.6	56.5						
400	54.0	55.4	55.6	56.9	58.1	58.4	59.6	59.8	58.6	57.9	54.8						
500	52.2	53.5	53.7	55.9	57.5	57.9	60.0	60.4	58.5	57.5	53.5						
630	53.6	54.2	55.9	58.3	59.9	60.8	62.4	62.3	60.1	58.1	53.3						
800	56.7	55.3	57.2	58.2	61.3	61.7	62.5	62.2	60.4	57.6	52.2						
1000	52.3	54.1	55.3	58.0	59.7	61.6	62.9	63.0	61.5	57.7	51.1						
1250	52.9	54.5	57.0	60.0	62.3	63.7	65.3	63.8	62.3	57.4	51.0						
1600	54.7	57.3	59.5	62.6	65.2	67.0	67.8	66.4	63.9	57.9	50.1						
2000	63.7	68.2	68.1	72.4	73.8	75.4	76.6	76.9	73.4	65.9	56.6						
2500	56.7	60.0	62.7	67.1	70.1	71.5	71.4	68.9	67.1	59.1	50.7						
3150	54.4	59.4	62.9	66.6	69.6	71.2	72.6	69.8	68.7	60.3	50.9						
4000	59.1	61.2	65.1	68.9	71.7	73.0	74.6	73.5	71.6	63.8	54.0						
5000	54.7	58.9	62.1	66.4	69.2	71.2	72.8	71.2	68.2	60.6	49.6						
6300	54.2	58.4	61.3	64.6	68.9	72.0	72.8	71.2	69.8	59.5	48.4						
8000	49.9	54.6	58.5	62.5	65.5	68.1	69.7	69.4	65.6	56.6	43.7						
10000	47.8	52.8	56.7	61.0	64.6	66.4	68.1	67.1	64.7	54.2	40.7						
12500	44.8	49.3	53.0	57.9	61.3	63.1	65.1	64.1	60.3	49.6	34.2						
16000	37.5	42.3	46.1	50.9	55.0	56.9	58.3	57.6	52.8	40.3	22.5						
20000	31.9	36.7	40.7	46.3	49.5	51.2	53.4	52.7	47.3	32.3	10.3						
25000	23.6	28.1	32.3	38.6	41.7	43.5	45.8	43.8	37.2	20.8							
31500	9.9	15.9	20.8	27.1	30.8	32.2	33.3	30.7	21.0	0.9							
40000			2.4	10.0	13.1	14.7	14.7	9.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	68.8	72.0	73.6	77.5	79.8	81.5	82.7	81.8	79.4	73.0	67.7						
PNDB	82.3	85.8	87.1	91.0	93.3	94.8	96.1	95.3	93.1	86.3	78.0						

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 18
LOC SCHENECTADY
DATE 11/22/74
RUN 23/5
TAPE
BAR 29.8 HG (100534. N/M2)
TAMB 41. DEG F (278. DEG K)
T-ET 36. DEG F (275. DEG K)
HACT 4.15 GM/MT (.00415 KG/M3)
NFA 7820. RPM (819. RAD/SEC)
NFK 7959. RPM (833. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 883. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 11 DAY 25 NO. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	71.8	74.4	78.9	80.9	81.1	80.2	77.9	72.2	70.2	74.6	76.9							112.1
125	68.5	66.4	71.9	69.4	70.4	67.9	68.4	70.9	72.0	73.3	75.1							104.8
160	65.8	66.6	66.9	67.7	68.4	67.9	69.4	70.4	72.0	73.8	75.6							104.2
200	65.8	68.8	67.9	67.7	70.1	70.6	71.4	72.9	73.5	76.1	77.1							106.0
250	68.0	67.9	69.4	69.6	70.4	70.1	72.6	72.6	73.5	75.1	75.8							105.9
315	69.5	70.9	71.1	70.9	71.6	71.9	72.6	72.6	73.5	74.9	75.1							106.5
400	68.1	69.9	69.9	70.2	73.1	71.2	72.6	72.9	73.0	74.6	74.3							105.9
500	66.8	68.1	67.4	68.4	73.4	71.2	72.9	73.7	74.2	75.1	74.1							105.9
630	69.4	69.6	70.9	72.4	73.7	75.2	76.9	77.2	77.5	77.6	75.1							109.1
800	71.4	71.6	72.9	72.7	74.9	75.7	77.3	78.2	78.5	78.3	74.9							110.0
1000	68.6	70.4	70.4	72.9	74.4	76.2	78.6	79.9	80.5	80.6	74.1							111.0
1250	79.2	77.7	77.6	81.0	83.9	85.7	88.1	87.9	87.5	87.9	81.4							119.3
1600	75.4	75.4	77.1	79.6	82.3	84.0	85.6	86.1	84.7	84.9	78.1							117.1
2000	75.4	75.7	77.9	80.3	82.7	84.0	85.3	85.1	84.8	83.9	78.4							116.9
2500	76.9	77.7	79.6	81.9	84.5	87.0	88.6	89.6	91.8	89.4	82.6							121.1
3150	74.9	76.7	78.4	80.9	83.8	86.3	87.8	87.8	88.8	87.9	80.3							119.5
4000	73.7	76.0	77.1	80.9	84.0	86.0	88.5	88.8	89.7	86.6	80.3							119.9
5000	71.9	73.7	75.8	79.1	82.8	85.2	86.7	87.2	88.4	85.8	78.2							118.5
6300	70.7	72.5	73.8	78.3	81.6	83.5	85.7	87.3	87.7	84.3	77.8							117.7
8000	68.4	71.5	73.1	76.8	80.1	82.1	84.5	85.3	86.6	83.5	76.2							116.5
10000	67.7	70.3	72.6	76.1	79.4	81.5	83.8	84.8	86.7	83.6	76.6							116.3
12500	67.5	69.1	70.9	74.2	77.9	80.2	83.2	84.4	85.9	82.5	75.6							115.6
16000	64.5	66.8	67.4	71.4	75.4	77.4	81.5	82.2	84.2	80.0	73.8							113.9
20000	64.8	66.2	66.9	70.6	74.2	76.5	79.4	82.3	84.6	79.5	72.8							114.3
25000	64.9	67.4	66.2	69.2	72.4	74.5	77.7	80.0	81.3	77.4	70.7							112.2
31500	64.7	67.0	65.2	68.5	71.4	73.9	76.9	79.5	80.1	76.5	68.8							112.2
40000	64.2	67.3	65.0	65.7	68.2	70.9	74.2	76.1	77.3	73.5	65.0							110.7
50000	66.6	69.0	66.5	66.0	66.9	68.7	71.4	71.3	72.7	70.0	64.2							109.6
63000	68.2	69.2	68.0	66.4	66.9	68.3	69.6	67.1	68.0	66.8	64.1							110.8
80000	70.8	69.1	69.4	67.2	68.4	69.8	71.1	69.5	68.2	67.9	65.7							118.1
OVERALL MEASURED																		
OVERALL CALCULATED	86.3	87.1	88.6	91.1	93.7	95.6	97.5	98.2	99.1	97.2	91.4							129.9
PNDB	98.7	99.8	101.4	103.8	106.6	108.5	110.4	110.8	112.0	110.3	104.5							

PAGE IS OF POOR QUALITY

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 25 HR. 10.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	93. (0.92)	82. (1.38)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.1	51.7	56.8	59.2	59.5	58.4	55.7	49.1	45.8	48.0	46.8						
125	44.8	43.6	49.7	47.8	48.7	46.1	46.1	47.8	47.4	46.7	44.9						
160	41.9	43.7	44.7	45.8	46.6	46.0	47.0	47.2	47.3	47.0	45.1						
200	41.8	45.6	45.4	45.7	48.3	48.7	48.9	49.6	48.7	49.1	46.4						
250	44.0	44.8	47.0	47.6	48.5	48.1	50.1	49.2	48.6	48.0	45.0						
315	45.4	47.7	48.6	48.9	49.7	49.8	50.0	49.1	48.5	47.6	44.8						
400	43.8	46.6	47.3	48.0	48.1	48.9	49.9	49.3	47.9	47.2	43.0						
500	42.4	44.8	44.7	46.2	48.2	48.9	50.0	49.9	49.0	47.5	42.5						
630	44.8	46.2	48.1	50.1	51.4	52.8	53.9	53.3	52.1	49.8	43.3						
800	46.7	48.0	50.0	50.2	52.5	53.2	54.3	54.2	52.9	50.4	42.7						
1000	43.8	46.8	47.3	50.3	51.9	53.6	55.4	55.8	54.8	52.4	41.6						
1250	54.2	53.8	54.5	58.3	61.3	62.9	64.8	63.6	61.6	59.4	48.5						
1600	50.2	51.3	53.8	56.6	59.2	61.0	62.1	61.6	58.6	56.2	44.9						
2000	50.0	51.4	54.3	57.2	59.8	60.9	61.8	60.4	58.4	54.8	44.8						
2500	51.3	53.2	55.9	58.6	61.4	63.7	64.7	64.7	65.1	60.1	48.4						
3150	48.9	51.9	54.4	57.4	60.4	62.7	63.6	62.6	61.7	58.1	45.8						
4000	47.1	50.7	52.6	56.9	60.2	62.0	63.9	63.0	62.1	58.5	44.3						
5050	45.3	48.1	51.1	54.9	58.7	60.9	61.8	61.2	60.5	56.6	41.6						
6300	42.9	46.2	48.3	53.4	56.9	58.5	60.1	60.4	58.8	52.0	39.4						
8000	39.2	43.9	46.5	50.8	54.3	56.1	57.7	57.1	56.1	49.3	34.9						
10000	36.6	41.0	44.4	48.6	52.1	53.9	55.4	54.8	54.2	46.7	31.4						
12500	33.6	37.2	39.5	44.4	48.3	50.3	52.4	51.8	50.3	41.8	24.7						
16000	26.0	30.8	33.1	38.0	42.2	43.9	46.8	45.3	43.5	32.8	13.5						
20000	20.1	24.7	27.5	32.3	36.3	38.2	39.6	39.7	37.3	23.8	0.0						
25000	11.6	18.1	19.6	24.1	27.7	29.2	30.6	29.3	24.5	9.6							
31500		6.4	8.0	13.4	16.8	18.5	19.1	16.9	9.4								
40000						0.5	0.5										
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.5	62.3	64.7	67.6	70.1	71.7	72.6	72.2	71.2	67.1	57.7						
PNDB	72.7	74.9	77.4	80.2	83.0	84.6	86.0	85.6	85.1	80.6	69.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 18
LOC SCHENECTADY
DATE 11/22/74
RUN 23/6
TAPE
BAR 29.6 HG (100534. N/M2)
TAMB 41. DEG F (278. DEG K)
TWET 36. DEG F (275. DEG K)
WACT 4.15 GM/M3 (.00415 KG/M3)
NFA 5470. RPM (573. RAD/SEC)
NFR 5567. RPM (583. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED 478. FT/SEC

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROG. DATE - MONTH 11 DAY 27 HR. 13.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. M)
VEHICLE RPES
CONFIG 10R
LOC SCHENECTADY
DATE 11/27/74
RUN 24/4
TAPE
BAR 29.9 HG (81000. N/M2)
TAMB 38. DEG F (279. DEG K)
TMET 34. DEG F (274. DEG K)
MACT 4.03 GM/M3 (.00403 KG/M3)
NFA 5428. RPM (568. RAD/SEC)
NFK 5541. RPM (580. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.2	76.4	79.9	81.9	81.9	80.9	77.4	71.9	71.7	75.3	76.9							112.8
125	69.7	69.1	72.6	69.2	70.6	68.4	68.1	70.9	71.0	72.6	74.7							104.8
160	66.7	67.4	68.1	67.2	67.1	67.7	69.4	70.4	71.7	73.8	75.2							104.8
200	65.7	66.6	66.6	66.9	68.1	69.9	70.6	72.4	73.2	75.3	76.4							105.2
250	66.7	68.4	68.9	68.9	69.6	70.6	71.3	72.1	72.7	74.1	75.4							105.3
315	69.5	70.9	71.1	71.7	71.9	72.4	72.6	72.1	73.2	74.6	74.6							106.4
400	68.8	70.1	69.4	70.4	70.6	72.2	72.4	72.6	73.0	74.1	74.4							105.9
500	64.3	67.9	68.4	69.2	69.9	71.7	72.9	73.4	74.5	74.8	73.9							105.9
630	69.3	70.1	71.9	72.2	73.9	75.7	77.1	77.7	77.5	77.3	74.9							109.3
800	70.1	73.1	73.6	73.9	75.9	77.7	78.1	79.9	79.7	79.3	75.9							111.3
1000	70.1	71.1	72.4	74.4	77.6	80.2	82.8	84.9	85.0	84.8	79.7							115.2
1250	84.6	81.9	85.9	87.5	92.7	94.7	97.3	98.1	96.6	94.1	86.4							120.0
1600	77.6	76.9	79.9	81.8	85.5	87.8	90.1	91.1	88.7	87.4	80.7							121.0
2000	74.4	76.2	79.1	80.6	83.0	85.0	85.6	86.4	85.5	84.9	80.2							117.6
2500	77.4	79.7	81.6	84.6	85.8	88.0	91.8	93.4	92.0	89.9	83.9							123.0
3150	73.6	76.5	78.4	81.4	83.8	86.6	88.0	89.3	88.8	87.9	81.4							119.9
4000	73.3	76.0	77.8	82.2	84.8	87.5	88.2	90.3	89.9	88.9	81.6							120.7
5000	71.5	73.4	76.5	79.9	83.8	86.0	86.7	87.7	88.4	86.1	79.5							118.6
6300	69.9	72.3	74.8	78.5	82.1	84.2	85.7	87.8	86.2	85.1	78.9							118.2
8000	68.3	71.2	73.3	77.5	80.6	82.9	84.8	86.5	86.8	84.8	78.5							117.1
10000	67.4	69.8	72.9	76.9	79.9	82.7	84.3	86.0	87.2	84.6	78.7							117.1
12500	67.4	69.6	71.7	75.2	79.1	81.4	83.9	85.4	86.4	83.7	78.2							116.5
16000	64.9	66.8	68.7	72.4	76.3	78.9	81.8	84.5	84.9	81.3	76.1							115.1
20000	63.6	65.8	68.0	71.0	75.1	77.9	80.4	83.5	84.8	81.0	75.3							114.8
25000	62.3	66.5	67.1	69.9	73.3	75.9	78.4	80.7	82.0	78.6	72.9							112.6
31500	61.8	66.3	66.3	69.1	72.0	75.5	77.5	80.1	81.0	77.9	71.0							111.1
40000	60.9	65.4	65.0	66.5	68.8	72.5	74.8	76.7	77.6	74.6	65.1							111.3
50000	62.0	66.5	66.0	65.1	66.6	69.0	71.5	72.1	73.0	71.1	61.0							109.8
63000	63.1	65.9	67.2	65.1	66.1	67.1	68.3	67.6	68.6	67.6	60.7							109.7
80000	63.6	67.0	69.1	66.1	67.9	68.2	69.3	68.4	69.7	69.3	63.5							114.9
OVERALL MEASURED																		
OVERALL CALCULATED	87.9	88.3	90.9	93.5	96.5	98.7	100.9	102.1	101.1	99.3	93.2							132.5
PNDB	99.1	101.0	103.0	105.7	107.7	110.1	112.3	113.7	112.9	111.3	105.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 27 HR. 13.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET (IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.5	53.7	57.8	60.2	60.3	59.2	55.2	48.8	47.3	48.8	48.8						
125	45.8	48.3	50.5	47.4	49.9	48.6	45.8	47.8	48.4	45.9	44.4						
160	42.9	44.5	45.9	45.3	45.4	45.8	47.0	47.2	47.1	46.8	44.7						
200	41.8	43.6	44.3	45.0	46.3	47.9	48.2	49.1	48.5	48.4	45.7						
250	42.6	45.3	46.5	46.9	47.7	48.6	48.8	48.7	47.8	47.8	44.5						
315	45.3	47.7	48.6	49.6	49.9	50.3	50.0	48.6	48.2	47.3	43.5						
400	44.5	46.9	46.8	48.2	48.6	49.9	49.6	49.0	47.9	46.7	43.1						
500	41.9	44.5	45.7	46.9	47.7	49.4	50.0	49.7	49.2	47.3	42.3						
630	44.8	46.7	49.1	49.8	51.7	53.3	54.2	53.8	52.1	49.8	43.1						
800	45.4	48.5	50.7	51.5	53.5	55.2	56.0	55.9	54.2	51.4	43.8						
1000	48.2	47.4	49.3	51.8	55.2	57.6	59.7	60.8	59.3	56.7	47.2						
1250	59.6	58.0	62.7	65.4	70.1	71.9	74.0	73.8	70.1	65.7	53.6						
1600	52.4	52.8	56.5	58.9	62.7	64.8	66.6	66.6	62.6	58.7	47.4						
2000	48.9	51.9	54.6	57.5	60.0	61.9	61.9	61.7	59.1	55.8	46.4						
2500	51.7	55.2	57.9	61.4	62.6	64.7	67.9	66.4	65.4	66.6	49.7						
3150	47.6	51.7	54.4	57.9	60.4	63.2	63.9	64.1	61.7	58.1	46.5						
4000	46.8	50.7	53.4	56.2	61.0	63.5	63.6	64.5	62.4	58.3	45.6						
5000	44.7	47.9	51.8	55.7	59.7	61.7	61.8	61.7	60.5	55.1	42.9						
6300	42.1	45.9	49.3	53.6	57.4	59.2	60.1	60.9	59.3	52.8	40.4						
8000	39.1	43.6	46.7	51.5	54.8	56.8	57.9	58.4	56.4	50.6	37.2						
10000	36.3	40.5	44.7	49.3	52.6	55.1	55.9	56.1	54.6	47.7	33.5						
12500	33.5	37.7	41.2	45.4	49.6	51.6	53.1	52.8	50.8	42.9	27.2						
16000	26.4	30.8	34.3	39.2	43.2	45.3	47.1	47.6	44.3	34.8	15.7						
20000	19.0	24.6	28.6	32.7	37.2	39.6	40.6	40.9	37.5	29.2	2.5						
25000	9.0	17.3	20.5	24.8	28.6	30.8	31.3	30.0	25.2	10.8							
31500		9.7	9.2	14.0	17.5	20.1	19.7	17.6	10.3								
40000						2.1	1.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.6	63.8	67.3	70.2	73.3	75.2	76.9	76.9	73.8	69.8	59.4						
PNDB	73.1	76.2	79.0	82.2	84.4	86.3	84.2	84.5	85.9	81.8	71.2						

SIDELINE 200. FT. (60.96 M)
VEHICLE R=55
CONFIG 100
LOC SCHENECTADY
DATE 11/27/74
RUN 24/4
TAPE
BAR 29.9 IN HG (01000. N/M2)
TAMB 38. DEG F (270. DEG K)
THET 34. DEG F (274. DEG K)
HACT 4.03 GM/M3 (.00403 KG/M3)
NFA 5428. RPM (568. RAD/SEC)
NFK 5541. RPM (580. RAD/SEC)
NF2 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.5	75.9	73.9	72.9	71.1	71.7	70.6	70.2	73.0	76.8	80.2							160.2
125	70.0	70.4	72.1	71.4	71.4	72.7	70.9	73.9	75.0	78.8	79.4							167.7
160	63.5	69.6	69.9	70.4	70.4	72.7	72.1	73.9	75.5	78.6	80.4							168.0
200	67.7	68.6	70.1	69.9	71.4	75.1	74.1	75.9	77.8	79.3	81.1							169.1
250	69.4	71.1	72.1	72.1	73.1	74.6	74.8	75.6	76.5	78.1	79.4							168.9
315	79.0	73.6	74.1	74.7	74.9	77.2	76.1	76.1	76.7	79.1	79.4							170.2
400	70.0	72.1	72.1	72.4	73.6	74.4	74.8	75.6	76.5	78.1	78.4							168.9
500	68.3	70.1	70.6	72.2	72.7	74.2	75.9	76.9	77.7	80.1	77.7							169.4
630	71.7	72.6	74.1	74.9	78.9	78.2	79.4	80.2	80.5	80.6	78.2							172.0
800	75.3	74.1	74.9	75.7	77.6	79.7	80.3	80.9	80.7	82.8	77.7							173.1
1000	73.8	73.1	74.4	74.2	78.4	81.0	82.8	84.9	85.5	85.1	78.9							175.6
1250	75.3	75.4	78.6	80.5	82.4	84.7	87.6	89.6	89.2	89.4	82.2							179.8
1600	83.8	80.7	86.6	85.6	90.7	91.0	96.1	97.6	93.7	94.1	85.4							186.7
2000	77.9	79.0	81.1	84.1	86.0	87.8	89.6	90.4	89.0	87.4	82.2							181.0
2500	76.1	79.2	81.1	84.4	86.5	88.5	90.8	90.1	89.8	87.9	81.4							181.5
3150	79.4	81.5	83.6	86.7	90.3	92.5	95.5	96.1	96.3	93.4	86.4							186.6
4000	75.8	78.7	80.8	84.9	88.9	91.0	91.7	92.3	91.9	88.1	83.3							183.2
5000	75.5	78.2	80.5	84.6	88.9	92.2	91.9	92.5	92.9	89.1	83.0							183.7
6300	77.9	76.5	79.3	82.5	88.4	88.7	90.7	91.5	92.2	87.3	82.1							182.2
8000	71.5	75.0	78.1	82.3	85.1	87.6	88.8	90.5	91.0	86.8	81.7							181.2
10000	70.9	74.3	77.4	81.6	84.7	87.5	88.8	90.5	91.7	87.1	82.4							181.4
12500	70.1	73.1	75.7	80.7	83.9	85.9	87.9	90.2	90.6	85.9	80.7							180.7
16000	67.7	70.3	73.2	76.4	80.8	83.6	85.5	88.7	88.4	83.3	78.4							178.9
20000	64.9	69.1	71.8	76.5	79.8	82.4	85.8	88.2	89.8	83.7	78.5							179.4
25000	65.5	68.5	70.8	74.4	77.8	80.9	83.8	85.9	86.7	82.1	76.7							177.7
31500	64.3	67.8	69.5	73.8	76.8	80.5	82.3	85.1	85.8	81.4	74.2							177.7
40000	62.7	66.4	67.0	70.5	73.8	77.5	80.1	81.9	82.9	78.4	68.9							176.2
50000	62.3	66.0	67.0	67.1	69.9	73.3	76.0	76.6	77.5	74.6	63.8							173.5
63000	63.6	65.6	67.4	66.1	67.1	69.3	71.3	70.8	71.3	69.1	60.4							171.6
80000	64.4	67.3	69.1	67.8	68.1	70.0	71.5	70.4	70.7	68.8	61.2							170.0
OVERALL MEASURED																		
OVERALL CALCULATED	88.9	89.8	92.5	94.9	98.1	100.4	102.7	103.9	103.4	100.9	95.4							134.5
PNDB	101.7	103.5	105.7	108.3	111.4	113.7	115.9	116.7	116.6	114.4	108.7							

CONFIG 16R
LOC SCHEREGTADY
DATE 11/27/74
RUN 24/5
TAPE
BAR 29.9 IN HG
(01000. N/M2)
TAMB 38. DEG F
(270. DEG K)
T-DT 34. DEG F
(274. DEG K)
HACT 4.03 GM/M3
(.00433 KG/M3)
NFA 6205. RPM
(650. RAD/SEC)
NFK 6335. RPM
(663. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
542. FT/SEC

RADIAL 17. FT.
(5. IN)
VEHICLE F-55

MODEL SOUND PRESSURE LEVELS (SPL, DEG, F, 70 PERCENT REL. HUM. BAND)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	50.8	53.2	51.8	51.2	49.5	49.9	48.4	47.1	48.5	50.3	50.1						
125	46.2	47.6	50.0	49.6	49.7	50.0	48.6	50.8	50.4	50.2	49.2						
160	44.8	46.7	47.7	48.6	48.8	50.6	49.7	50.7	50.8	51.8	49.8						
200	43.8	45.6	47.8	48.8	49.6	53.2	51.7	52.6	52.2	52.4	50.5						
250	45.4	48.0	49.7	50.1	51.2	52.6	52.3	52.2	51.6	51.0	48.5						
315	47.8	50.5	51.6	52.6	52.9	55.0	53.5	52.8	51.7	51.0	48.3						
400	45.7	48.9	49.6	50.2	51.6	52.2	51.9	52.8	51.4	50.7	47.1						
500	41.6	46.8	48.0	49.9	50.7	51.9	53.0	53.2	52.5	52.5	48.1						
630	44.8	49.2	51.4	52.6	54.7	55.0	56.4	56.3	55.1	52.8	48.3						
800	51.6	50.5	52.8	53.2	55.3	57.2	57.3	58.9	55.2	54.9	49.5						
1000	49.8	49.4	51.3	53.6	55.9	58.3	58.7	60.8	59.8	58.9	48.4						
1250	53.3	51.5	55.5	57.8	59.8	61.9	64.3	65.3	63.3	60.9	49.3						
1600	58.4	56.6	63.3	62.6	66.8	68.8	72.6	73.1	67.6	65.6	52.2						
2000	52.4	54.7	57.6	61.8	63.9	64.8	65.9	65.7	62.6	58.3	48.4						
2500	50.4	54.7	57.4	61.1	63.4	65.2	66.9	65.2	63.1	58.8	47.2						
3150	51.3	56.7	59.6	63.1	66.9	68.9	71.4	70.8	69.2	63.6	51.5						
4000	47.3	53.4	58.4	60.9	64.2	67.8	67.1	66.5	64.4	57.5	47.3						
5000	49.7	52.6	55.8	58.4	64.8	67.9	67.8	66.4	65.8	58.1	46.4						
6300	46.1	50.2	53.6	57.9	61.6	63.7	65.1	64.7	63.3	55.8	43.7						
8000	42.4	47.4	51.5	56.3	59.3	61.6	61.9	62.4	60.6	52.6	40.5						
10000	39.8	45.8	49.2	54.1	57.3	59.9	60.4	60.6	58.1	50.2	37.2						
12500	36.2	41.2	45.2	50.9	54.3	56.1	57.1	57.6	55.8	45.1	29.7						
16000	29.2	34.3	38.8	43.8	47.7	50.1	50.8	51.8	47.8	30.8	18.8						
20000	22.2	27.6	32.4	38.2	41.7	44.1	45.8	45.7	42.5	20.8	5.8						
25000	12.2	18.3	24.2	29.3	33.1	35.6	36.5	35.3	29.8	14.3							
31500		7.2	12.4	18.5	22.2	26.1	24.5	22.6	15.8								
40000				0.4	4.5	7.1	6.3	1.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.3	65.8	68.5	76.8	76.2	78.2	78.8	77.9	75.2	70.9	61.5						
PNLD	75.6	78.6	81.6	84.7	88.8	90.0	91.7	91.4	89.5	84.5	73.6						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 10R
LOC SCHENECTADY
DATE 11/27/74
RUN 24/5
TAPE
BAR 29.9 HG (01000. N/M2)
TAMB 38. DEG F (276. DEG K)
THET 34. DEG F (274. DEG K)
HACT 4.03 GM/M3 (.00403 KG/M3)
NFA 6205. RPM (650. RAD/SEC)
NFK 6335. RPM (663. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 542. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(S. HI	100	71.9	73.4	73.9	72.9	72.1	74.4	72.9	72.9	70.2	80.8	86.4							111.1
VEHICLE ROSS	125	75.0	60.1	60.1	77.4	75.1	75.9	75.6	77.7	78.5	80.6	85.1							112.9
CONFIG 16R	160	73.0	72.6	72.6	74.9	74.9	76.9	76.4	77.2	79.0	81.8	85.1							112.8
LOC SCHENECTADY	200	73.3	70.6	71.9	74.6	75.9	77.9	77.4	78.9	80.0	82.8	85.3							112.6
DATE 11/27/74	250	74.0	74.1	75.4	76.8	77.1	79.8	78.6	79.1	80.2	81.8	84.6							113.1
RUN 24/6	315	76.0	76.9	77.6	78.1	78.6	80.1	79.3	79.9	80.2	81.0	83.3							113.6
TAPE	400	74.3	75.6	75.4	76.1	77.1	79.6	78.1	79.4	80.0	81.3	82.8							112.7
BAR 29.9 HG	500	72.6	73.1	73.6	74.1	76.6	79.6	78.9	79.7	80.5	81.6	81.6							112.5
(101300. N/M2)	630	74.4	74.8	76.6	77.9	79.7	81.9	82.4	82.7	83.2	82.8	82.4							115.8
TAMB 59. DEG F	800	75.6	76.6	77.1	78.9	81.6	83.4	82.8	83.7	83.5	83.6	81.9							115.9
(277. DEG K)	1000	74.4	75.4	75.9	78.7	80.4	84.2	84.6	86.1	86.5	85.8	82.4							117.2
THET 34. DEG F	1250	75.7	76.4	79.1	81.5	83.9	87.4	88.6	89.9	89.7	84.8	83.8							120.7
(274. DEG K)	1600	86.2	84.2	86.9	89.3	98.0	100.5	103.3	102.2	97.7	95.9	93.9							132.4
HACT 3.74 GM/M3	2000	83.9	83.0	86.1	89.8	93.2	97.5	100.3	99.6	95.8	94.2	90.9							129.8
(.00374 KG/M3)	2500	78.7	81.5	83.6	87.1	89.5	92.8	92.8	91.9	92.8	88.4	84.4							123.8
NFA 6983. RPM	3150	80.2	84.8	86.6	90.1	92.8	94.5	97.1	97.1	97.3	92.2	88.8							127.9
(731. RAD/SEC)	4000	79.7	83.2	86.1	88.4	92.3	94.2	96.5	96.8	96.5	91.9	87.8							127.5
NFK 7122. RPM	5000	77.4	82.0	85.3	89.1	91.8	93.9	96.8	96.7	96.2	91.1	86.2							127.1
(746. RAD/SEC)	6300	77.5	80.6	82.3	87.3	89.9	92.4	94.5	96.1	94.9	90.0	85.1							126.0
NFD 6823. RPM	8000	76.2	79.3	81.9	86.5	89.2	91.4	94.0	94.8	94.8	90.1	85.7							125.3
(924. RAD/SEC)	10000	75.5	78.6	81.4	86.9	88.5	91.3	93.8	94.3	95.0	89.0	85.9							125.3
NO. OF BLADES 15	12500	74.8	77.1	80.3	85.2	88.7	90.4	92.5	93.7	93.0	89.7	84.9							124.7
FAN TIP SPEED	16000	71.8	74.4	77.2	82.1	85.1	87.4	91.0	92.5	91.7	87.1	87.1							123.1
610. FT/SEC	20000	71.5	73.4	76.1	81.7	84.4	87.2	90.6	92.3	92.8	87.7	85.5							123.5
	25000	73.6	72.0	75.1	80.6	83.3	85.8	89.1	90.9	91.2	85.9	84.8							122.7
	31500	69.5	71.0	73.7	79.3	81.7	85.4	88.0	89.5	90.0	84.8	83.4							122.4
	40000	68.8	68.7	71.4	76.6	78.9	82.3	85.0	86.8	86.5	82.2	78.9							120.7
	50000	72.1	68.3	68.8	75.1	76.2	78.8	81.3	81.7	81.4	78.4	80.8							118.8
	63000	74.9	67.3	67.6	75.1	75.1	78.8	75.8	74.6	74.3	72.6	73.9							117.3
	80000	72.6	66.7	68.8	75.7	76.8	77.1	77.8	74.4	71.8	71.1	70.4							121.7
OVERALL MEASURED																			
OVERALL CALCULATED		92.1	93.2	95.4	99.8	102.4	105.5	108.8	108.8	106.6	103.1	100.7							130.8
PNLP		104.4	106.5	108.8	112.1	114.6	117.4	119.7	119.4	118.9	115.3	112.4							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. (60.96 M)	80																
	100	49.1	50.7	51.8	51.2	50.5	52.0	50.7	49.0	51.8	54.3	54.3					
VEHICLE R-SS	125	51.3	57.3	58.3	55.5	53.5	54.1	53.3	54.5	53.9	53.9	54.9					
CONFIG 1AK	160	49.2	49.7	50.4	53.8	53.1	55.6	54.8	53.9	54.3	54.8	54.6					
LOC SCHEDULED	200	48.3	47.6	49.6	52.7	54.1	55.9	54.9	55.6	55.2	55.9	54.7					
DATE 11/27/74	250	50.0	51.9	53.8	54.4	55.2	57.8	56.1	55.7	55.3	54.7	53.7					
RUN 26/4	315	51.9	53.7	55.1	54.8	56.6	58.8	56.7	56.4	55.2	54.8	52.2					
TAPE	400	50.8	52.4	52.8	53.9	55.1	57.4	55.4	55.8	54.9	53.8	51.5					
BAR 29.9 IN HG (101250. N/M2)	500	48.2	49.8	51.8	53.9	56.5	57.3	56.8	55.9	55.2	54.8	50.8					
	630	49.8	51.2	53.8	55.5	57.7	59.5	59.7	58.8	57.9	55.1	50.5					
TAMB 36. DEG F (277. DEG K)	800	51.8	53.8	54.2	57.4	59.3	60.8	59.8	59.7	57.8	55.6	49.7					
	1000	49.6	51.6	52.8	56.8	57.9	61.5	61.4	62.0	60.8	57.4	49.9					
TMET 34. DEG F (274. DEG K)	1250	50.7	52.5	56.8	58.7	61.3	64.7	65.3	65.6	63.8	61.2	51.1					
	1600	61.8	60.1	63.5	64.3	73.2	77.5	78.6	77.7	71.6	67.2	60.6					
HACT 3.74 GM/M3 (.6037 KG/M3)	2000	58.5	58.7	62.6	65.7	78.3	84.3	78.6	74.9	69.4	65.1	57.1					
	2500	51.8	57.8	58.9	63.8	66.4	68.7	68.9	67.8	65.4	58.1	56.2					
MFA 6941. RPM (731. RAD/SEC)	3150	54.2	59.2	62.6	64.6	69.1	78.9	72.9	71.9	70.3	62.3	53.7					
	4000	53.1	57.9	61.6	65.4	68.5	78.2	71.9	71.1	68.9	61.3	51.6					
MFK 7122. RPM (746. RAD/SEC)	5000	52.5	56.4	60.6	64.9	67.2	69.7	71.1	70.7	68.3	60.1	49.6					
	6300	49.7	54.2	57.3	62.3	65.2	67.5	68.8	68.2	66.8	58.3	46.8					
MFD 8823. RPM (924. RAD/SEC)	8000	47.8	51.7	55.3	60.5	63.8	65.3	67.2	66.7	64.4	55.9	44.4					
	10000	44.4	48.3	53.2	59.3	61.1	63.8	65.4	64.4	62.4	52.7	40.7					
NO. OF BLADES 15	12500	40.7	45.3	49.8	55.4	59.1	60.6	61.7	61.1	58.3	48.9	34.8					
FAN TIP SPEED 616. FT/SEC	16000	33.3	38.3	42.4	48.7	52.8	53.8	56.4	55.6	51.8	39.8	28.7					
	20000	26.6	31.9	36.7	43.5	46.5	48.8	50.8	49.7	45.5	32.8	12.7					
	25000	17.3	22.8	29.5	35.5	38.6	40.6	42.8	40.3	34.4	18.8						
	31500	3.5	10.4	16.6	24.1	27.1	30.8	30.2	27.8	19.2							
	40000				6.5	9.6	11.8	11.2	6.4								
	50000																
	63000																
	80000																
OVERALL CALCULATED		66.2	68.3	71.3	74.7	76.5	81.6	83.5	82.1	78.3	73.9	66.7					
PNDB		78.6	81.8	84.6	88.4	91.2	94.1	95.7	94.3	91.8	85.4	78.3					

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	71.0	72.4	73.9	74.4	75.1	77.1	76.9	78.9	79.5	83.6	87.6							113.3
VEHICLE RMS	125	76.3	77.4	77.1	77.4	77.6	79.6	80.1	82.2	82.8	84.1	87.6							115.8
CONFIG 1RR	160	74.8	75.6	75.6	77.4	77.4	79.1	80.1	82.2	82.7	85.3	87.6							115.1
LRC SCHEDULED	200	74.8	73.9	75.8	74.6	78.1	81.9	80.6	83.1	83.7	86.6	89.3							116.8
DATE 11/27/74	250	77.3	78.1	79.4	80.6	81.1	82.6	83.3	84.9	85.2	87.1	88.1							117.4
RUN 24/7	315	78.5	79.4	80.6	80.9	81.6	82.1	82.3	83.9	84.8	85.6	86.6							116.8
TAPE	400	77.1	78.6	78.6	79.4	79.9	81.1	82.4	83.6	83.5	85.1	86.1							116.8
BAR 29.9 HG	500	77.1	75.6	76.9	78.4	79.1	80.9	82.6	84.2	84.3	86.8	86.9							119.6
(101000. N/M2)	630	78.6	77.4	79.1	80.4	81.6	83.2	85.1	85.9	86.8	85.8	86.8							117.9
TAMB 38. DEG F	800	81.4	80.1	78.6	81.4	83.6	84.7	86.1	86.7	86.8	85.8	84.4							118.3
(276. DEG K)	1000	82.1	77.9	78.4	80.9	82.9	84.9	86.8	87.9	87.7	86.3	83.4							119.9
TMET 34. DEG F	1250	81.7	78.7	80.2	83.2	85.2	87.7	89.8	89.9	89.2	88.4	84.4							121.1
(274. DEG K)	1600	83.4	83.7	85.4	88.8	90.9	91.7	95.1	95.9	93.2	91.9	84.4							125.7
MACT 4.63 G/M3	2000	84.9	86.7	87.1	90.8	100.2	100.7	107.1	106.4	105.8	101.9	94.1							133.8
(.00403 KG/M3)	2500	82.4	85.2	86.9	91.5	93.5	95.8	95.3	95.1	94.3	90.2	86.4							128.8
NFA 2755. RPM	3150	81.8	84.5	87.1	90.5	93.5	96.8	97.8	95.6	96.5	91.7	87.3							127.8
(812. RAD/SEC)	4000	83.9	87.2	89.6	93.4	97.3	99.8	102.2	100.8	100.9	95.9	90.5							132.3
NFR 3937. RPM	5000	81.9	84.7	87.5	91.3	94.2	95.9	98.4	98.2	97.4	92.6	87.2							129.8
(829. RAD/SEC)	6300	82.2	85.5	88.8	91.2	93.6	96.4	98.4	100.8	99.4	92.8	87.3							129.9
NFB 4823. RPM	6750	78.8	82.7	85.3	89.2	92.8	95.1	96.8	97.8	97.3	92.3	86.4							128.2
(824. RAD/SEC)	8000	74.7	82.1	85.8	90.1	93.7	94.7	97.8	98.8	98.4	92.8	86.9							128.9
NO. OF BLADES 15	12500	74.4	81.3	84.5	89.2	92.1	94.8	96.2	98.2	98.1	91.7	86.6							128.6
FAN TIP SPEED	16000	76.3	78.6	81.2	85.6	89.1	91.8	94.5	96.5	95.4	89.3	85.1							126.8
677. FT/SEC	20000	75.4	78.1	80.8	85.2	88.8	91.4	94.4	96.7	96.3	90.7	85.8							127.4
	25000	74.9	76.8	79.6	84.3	87.3	90.6	93.9	95.7	95.7	90.1	84.4							127.2
	31500	73.6	75.8	78.5	83.6	86.8	91.2	92.8	94.1	94.3	88.8	82.4							126.9
	40000	71.5	72.9	75.5	81.5	83.8	87.7	89.6	90.9	90.4	85.6	79.6							125.1
	50000	71.4	70.8	72.7	84.8	79.4	85.2	86.2	86.1	86.8	82.3	71.2							123.5
	63000	72.4	69.4	71.2	76.1	76.6	79.3	81.6	81.8	78.1	76.6	66.6							120.9
	80000	75.9	72.8	74.1	77.3	78.1	79.2	83.0	85.2	79.7	79.1	67.2							120.6
OVERALL MEASURED																			
OVERALL CALCULATED		97.4	99.1	100.4	103.7	105.6	107.4	110.9	112.2	110.5	106.1	101.4							142.3
	PMAX	111.1	112.8	113.9	116.8	118.2	120.0	123.6	124.9	122.9	119.3	113.9							

ORIGINAL PAGE IS
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE BOSS
CONFIG 10R
LOC SCHENECTADY
DATE 11/27/74
RUN 24/7
TAPE
BAR 29.0 IN HG (101030. N/M2)
TAMB 30. DEG F (270. DEG K)
TDPT 30. DEG F (274. DEG K)
HACT 4.83 GM/M3 (.00403 KG/M3)
NFA 7755. RPM (812. RAD/SEC)
NFK 7917. RPM (829. RAD/SEC)
NFD 8023. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 677. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.4	49.7	51.8	52.7	53.5	55.4	54.7	55.8	55.8	57.8	57.5						
125	52.3	54.6	55.8	55.6	56.8	57.8	57.8	59.8	57.4	57.4	57.4						
160	53.8	52.7	53.4	55.5	55.6	57.2	57.7	58.8	58.1	58.5	57.1						
200	53.8	58.9	53.3	54.7	58.3	59.8	58.2	59.8	58.5	59.8	57.7						
250	53.2	55.8	57.3	58.6	59.2	60.5	60.8	61.5	60.3	60.8	57.2						
315	54.4	56.2	56.1	58.8	59.8	62.8	59.7	60.4	58.8	58.3	55.5						
400	52.8	54.4	56.1	57.2	57.8	58.9	58.6	60.8	58.4	57.7	54.6						
500	52.7	52.3	54.2	56.1	57.8	58.6	59.8	60.4	58.7	57.3	53.3						
630	53.4	53.9	56.4	58.8	59.4	60.7	62.2	62.8	60.6	58.1	53.8						
800	56.7	55.3	58.7	58.9	61.3	62.1	63.8	62.7	60.4	57.9	52.2						
1000	57.3	56.1	55.3	58.3	60.4	62.3	63.7	63.8	62.8	58.2	50.9						
1250	56.7	54.8	57.2	60.5	62.6	64.8	64.3	65.6	64.3	59.9	51.5						
1600	58.2	59.6	62.8	65.1	67.2	68.8	71.6	71.4	67.1	63.2	51.1						
2000	69.5	72.4	73.8	76.7	77.3	77.9	83.4	84.7	79.4	72.8	60.4						
2500	56.9	60.7	63.2	66.6	78.1	71.7	71.4	70.2	67.6	60.8	52.2						
3150	55.9	59.7	63.1	67.1	78.1	72.4	72.9	70.3	68.5	61.8	52.4						
4000	57.3	61.9	65.1	69.4	73.5	74.9	77.6	74.3	73.4	64.3	54.9						
5000	55.8	59.1	62.8	67.1	76.2	71.7	73.5	72.2	69.5	61.6	50.6						
6300	54.4	58.7	62.5	66.3	66.9	71.4	72.8	73.2	70.5	60.3	48.9						
8000	49.7	55.1	58.7	63.2	66.7	69.8	69.9	69.6	66.8	58.1	45.2						
10000	47.6	52.7	57.4	62.5	65.3	67.1	69.4	68.1	65.8	58.7	41.7						
12500	44.5	49.4	54.8	59.4	62.8	64.8	65.4	65.6	62.5	56.9	38.7						
16000	37.5	42.6	48.8	52.2	55.9	58.1	58.8	59.6	54.8	42.8	24.7						
20000	30.8	36.8	41.4	46.9	51.8	53.8	54.6	54.2	49.8	35.8	12.2						
25000	21.5	27.5	33.8	39.2	42.6	45.3	46.8	45.8	38.9	22.3							
31500	7.5	15.2	21.4	28.7	31.4	35.8	34.2	31.6	23.5	3.8							
40000			2.7	13.4	13.7	17.3	15.8	10.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	71.7	74.4	76.2	79.6	81.5	82.7	86.1	86.3	82.3	76.8	66.8						
PNCE	85.4	88.2	90.1	93.4	94.9	96.1	98.6	98.9	96.8	88.8	79.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
50																		
63																		
80																		
100	70.3	71.9	73.9	74.4	75.1	75.6	77.6	79.9	80.7	84.6	87.9							113.8
125	75.8	77.1	76.9	77.6	77.6	78.6	80.9	82.9	82.5	84.6	87.4							115.2
160	75.0	75.9	76.1	77.1	77.1	78.1	80.6	82.7	83.0	85.3	87.6							115.2
200	73.5	73.6	75.1	76.9	78.1	80.6	81.1	84.1	83.7	86.1	88.3							116.0
250	77.3	77.9	79.6	80.6	81.1	81.8	83.3	85.4	85.2	87.1	87.8							117.4
315	78.5	79.6	80.4	80.6	81.1	81.4	82.6	84.4	84.0	85.6	86.8							116.8
400	77.3	78.4	78.4	79.1	80.4	80.9	82.1	84.1	83.5	85.3	86.1							116.1
500	74.6	75.6	76.9	78.6	79.4	80.9	82.9	84.7	84.2	85.3	84.6							115.9
630	76.4	77.4	79.6	80.1	81.9	83.4	84.9	86.4	86.2	86.3	85.1							117.7
800	77.9	78.9	80.1	81.9	83.9	85.2	85.8	86.9	86.2	85.8	84.6							118.4
1000	75.1	77.9	78.1	81.1	82.9	84.7	87.1	88.4	87.7	86.6	83.9							118.9
1250	77.9	78.7	81.1	83.5	85.2	87.2	89.6	90.1	90.0	87.9	84.1							121.0
1600	82.4	83.7	85.6	87.8	89.7	91.5	94.3	95.4	93.2	92.1	85.1							125.4
2000	95.7	96.2	97.4	99.8	100.0	101.0	107.3	109.4	106.5	101.9	94.6							136.0
2500	82.2	85.0	86.9	91.3	93.5	95.0	95.3	94.6	95.3	90.7	86.1							120.9
3150	81.7	84.2	87.1	91.1	93.3	95.5	96.5	95.3	96.3	91.4	86.8							127.5
4000	83.7	86.5	90.1	93.4	96.5	99.7	102.2	100.3	100.9	95.9	91.0							132.1
5000	81.4	84.4	88.0	91.8	93.7	95.7	97.9	98.2	97.6	92.6	87.0							126.9
6300	81.7	85.0	88.0	91.7	93.9	96.4	98.2	100.0	99.2	92.8	87.8							129.9
8000	79.1	82.5	85.8	90.3	92.1	94.8	96.8	98.0	97.5	92.0	86.9							126.3
10000	78.7	82.1	85.9	90.6	92.7	95.2	97.3	98.0	98.2	92.8	87.4							126.8
12500	78.2	80.6	85.0	89.4	92.1	94.1	96.2	98.2	98.1	91.7	86.6							126.5
16000	75.5	77.8	81.7	86.1	88.8	91.6	94.3	96.5	95.7	89.0	85.1							126.6
20000	75.2	77.3	81.5	86.4	88.3	91.1	93.9	96.7	96.3	90.0	85.2							127.2
25000	74.9	77.3	79.8	84.8	87.5	90.1	93.4	95.7	96.0	89.9	84.4							127.1
31500	73.9	76.1	79.0	83.8	86.3	89.5	92.3	94.4	94.3	88.9	81.9							126.8
40000	72.2	73.1	76.0	80.7	83.0	86.4	89.8	90.9	90.6	85.9	78.1							124.9
50000	71.1	69.7	74.0	78.0	79.4	83.0	85.5	86.6	86.0	82.3	71.0							122.7
63000	71.7	69.1	73.4	76.3	76.9	79.0	82.1	82.6	81.1	76.6	68.1							121.5
80000	75.2	73.0	77.6	78.0	78.1	79.2	85.0	86.2	82.9	77.8	69.7							120.0
OVERALL MEASURED																		
OVERALL CALCULATED	97.5	98.7	100.7	103.8	105.3	107.4	110.9	112.2	110.8	106.1	101.6							142.3
PNDB	111.2	112.4	114.2	116.9	118.0	120.3	123.7	125.0	123.3	119.4	114.2							

RADIAL 17. FT. (5. M)
VEHICLE R-85
CONFIG 18R
LOC SCHENECTADY
DATE 11/27/74
RUN 24/8
TAPE
BAR 29.9 HG (101300. N/M2)
TAMB 38. DEG F (276. DEG K)
TWET 34. DEG F (274. DEG K)
WACT 4.03 GM/M3 (.00403 KG/M3)
NFA 7754. RPM (812. RAD/SEC)
NFK 7916. RPM (829. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 677. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. 0. 0. 0. 0. 0. (0. 180. 180. 180. 180. 180.)
	50												
	63												
SIDELINE 200. FT.	80												
(60.96 M)	100	46.6	49.2	51.8	52.7	53.5	53.9	55.4	56.8	56.3	56.0	57.8	
VEHICLE B-55	125	52.8	54.3	54.7	55.8	56.0	56.8	58.6	59.8	57.9	57.9	57.1	
CONFIG 16P	160	51.2	53.8	53.9	55.3	55.4	56.2	58.2	59.4	58.3	54.5	57.1	
LOC SCHNEECTADY	200	49.6	50.6	52.8	54.9	56.3	58.0	58.7	60.8	59.0	59.1	57.7	
DATE 11/27/74	250	53.2	54.8	57.2	58.6	59.2	59.8	60.8	62.0	60.3	60.0	57.0	
RUN 24/8	315	54.4	56.5	57.9	58.5	59.1	59.2	60.0	60.9	59.0	58.3	55.7	
TAPE	400	53.0	55.1	55.8	56.9	58.3	58.7	59.4	60.5	58.4	57.9	54.8	
BAR 29.9 MB	500	53.2	52.3	54.2	56.4	57.2	58.6	60.0	60.9	59.0	57.8	53.0	
(01000. N/M2)	630	51.8	53.9	56.9	57.8	59.7	61.0	61.9	62.5	60.9	58.6	53.3	
TAMB 34. DEG F	800	53.2	55.3	57.2	59.4	61.5	62.6	62.8	62.9	60.7	57.9	52.5	
(276. DEG K)	1000	51.3	54.1	55.1	58.5	60.4	62.0	63.9	64.3	62.0	58.4	51.4	
TACT 34. DEG F	1250	52.9	54.8	58.0	60.7	62.6	64.4	66.3	65.8	64.1	59.4	51.3	
(274. DEG K)	1600	57.2	59.6	62.3	64.8	66.7	68.5	70.8	70.9	67.1	63.4	51.9	
HACT 4.03 GM/M3	2000	79.2	71.9	73.8	76.7	77.0	77.8	83.6	84.7	80.1	72.8	60.9	
(.00403 KG/M3)	2500	56.5	60.5	63.2	68.1	73.4	71.7	71.4	69.7	68.6	61.3	51.9	
NFA 7754. RPM	3150	55.7	59.4	63.1	67.6	69.9	71.9	72.4	70.1	69.2	61.5	51.9	
(812. RAD/SEC)	4000	57.1	61.2	65.6	69.4	72.7	75.7	77.6	74.5	73.4	65.3	55.0	
NFK 7916. RPM	5000	54.5	59.9	63.3	67.6	69.7	71.4	73.0	72.2	69.7	61.6	50.4	
(829. RAD/SEC)	6300	53.9	58.7	62.5	66.8	69.1	71.4	72.6	73.2	70.3	60.5	49.4	
NFD 8823. RPM	8000	57.3	54.9	59.2	64.3	66.2	68.8	69.9	69.9	67.1	57.8	45.7	
(924. RAD/SEC)	10000	47.6	52.7	57.7	63.9	65.3	67.0	68.9	68.1	65.6	55.7	42.2	
NO. OF BLADES 15	12500	44.3	48.7	54.5	59.6	62.6	64.3	65.4	65.6	62.5	50.9	35.7	
FAN TIP SPEED	16000	37.0	41.8	47.3	52.7	55.7	58.1	59.6	59.6	55.0	41.8	24.7	
677. FT/SEC	20000	30.6	36.4	42.1	48.2	50.5	52.8	54.1	54.2	49.6	34.2	12.5	
	25000	21.5	28.0	33.2	39.7	42.9	44.8	46.3	45.0	39.2	22.8		
	31500	7.8	15.5	21.9	28.7	31.7	34.1	34.5	31.8	23.5	3.3		
	40000			3.2	10.6	13.7	16.8	15.8	10.8				
	50000												
	63000												
	80000												
OVERALL CALCULATED		71.8	74.0	76.4	79.7	81.2	82.8	86.1	86.3	82.8	76.0	68.1	
	PNDB	85.5	87.8	90.3	93.5	94.7	98.4	99.8	99.9	96.5	89.9	80.0	

PAGE 1 FULL SCALE DATA SECTION PROGRAM — PROC. DATE = MONTH 11 DAY 27 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	72.7	75.9	79.0	81.9	82.1	80.9	77.4	71.4	71.7	76.1	77.2							112.9
VEHICLE RPGS 125	67.5	67.6	71.9	68.7	69.6	68.2	67.9	71.9	72.7	72.6	74.9							104.8
CONFIG 18P 160	64.5	67.4	67.4	67.7	68.1	68.8	68.9	70.9	71.7	73.8	75.2							164.1
LOC SCHENECTADY 200	63.2	66.9	67.4	68.7	68.6	69.9	70.9	72.1	72.7	75.6	76.6							169.2
DATE 11/27/74 250	65.9	67.9	68.9	69.1	69.9	70.4	71.3	72.1	73.0	74.1	75.1							165.2
RUN 24/9 315	66.7	70.6	70.9	71.2	71.6	72.4	72.3	72.1	73.0	74.3	75.1							166.3
TAPE 400	67.8	69.6	69.6	69.9	70.6	71.9	72.4	72.6	73.2	74.6	74.4							165.6
BAR 29.9 IN HG 500	65.0	67.9	67.6	69.2	69.9	71.4	72.6	73.7	74.0	74.6	74.2							165.8
(01000. N/M2) 630	68.6	70.4	71.6	72.2	73.9	75.7	77.1	77.2	77.7	77.1	75.2							169.2
TAMB 36. DEG F 800	69.6	72.6	73.1	73.7	75.9	77.4	78.8	78.4	78.7	80.1	76.4							171.2
(276. DEG K) 1000	70.3	70.7	72.6	74.7	77.4	80.5	83.3	84.9	85.0	85.3	79.7							175.4
T-ET 34. DEG F 1250	84.1	82.9	85.4	89.5	92.4	94.0	97.1	98.1	96.2	94.9	87.2							178.0
(274. DEG K) 1600	77.6	77.9	80.1	82.3	85.5	87.8	90.6	90.9	89.0	88.4	81.7							171.2
MACT 4.03 GM/M3 2000	74.6	76.5	79.1	80.3	82.5	84.4	86.1	87.1	85.8	85.2	80.2							167.8
(.00403 KG/M3) 2500	77.4	80.2	81.4	84.1	85.5	88.5	92.3	93.1	92.0	91.2	85.2							173.2
NFA 5435. RPM 3150	74.1	77.0	79.6	81.4	84.0	87.0	88.5	89.3	88.5	88.4	82.6							168.1
(569. RAD/SEC) 4000	73.8	76.2	78.3	81.4	84.8	87.0	88.7	90.0	90.4	89.1	82.1							170.0
NFK 5548. RPM 5000	71.3	74.2	76.8	79.6	83.5	86.2	87.2	88.2	88.4	86.6	80.3							169.1
(581. RAD/SEC) 6300	69.9	72.8	74.8	78.3	81.4	84.5	86.2	87.5	88.4	85.8	79.6							166.3
NFD 8823. RPM 8000	67.8	71.5	73.8	77.3	80.3	83.4	85.0	86.3	87.3	85.3	78.2							167.3
(924. RAD/SEC) 10000	67.4	70.6	73.4	76.6	79.9	82.7	84.5	86.0	87.9	85.1	76.7							167.4
NO. OF BLADES 15 12500	66.9	69.6	71.7	75.5	79.1	81.7	83.9	85.4	87.4	84.2	77.9							166.9
FAN TIP SPEED 16000	63.7	67.1	69.7	72.1	76.1	78.6	81.5	84.2	85.2	81.9	75.9							165.8
474. FT/SEC 20000	63.4	66.6	67.8	71.2	74.6	77.9	80.9	83.5	85.5	81.5	75.3							165.1
25000	62.0	67.0	67.1	70.1	73.3	75.9	78.9	81.2	82.2	80.1	72.9							163.4
31500	61.0	65.1	65.8	68.9	71.8	73.5	77.5	80.1	81.5	78.6	71.2							163.3
40000	60.9	65.4	65.3	66.0	68.5	72.0	75.1	77.2	78.1	75.9	65.9							161.7
50000	62.3	66.2	66.2	65.1	66.9	69.3	72.0	72.1	73.3	71.3	63.0							159.6
63000	63.6	65.6	67.9	64.6	65.6	67.3	68.3	67.6	67.8	66.8	61.9							159.6
80000	62.9	67.3	69.1	66.3	66.4	67.5	68.5	67.9	66.2	66.3	59.2							163.9
OVERALL MEASURED																		
OVERALL CALCULATED	67.6	68.7	93.7	93.3	98.4	98.5	101.0	102.0	101.3	100.0	93.8							132.6
PWSB	99.0	101.3	102.9	105.4	107.6	110.1	112.7	113.6	113.8	112.1	106.7							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 18R
LOC SCHENECTADY
DATE 11/27/74
RUN 24/9
TAPE
BAR 29.9 IN HG (01000. N/M2)
TAMB 38. DEG F (276. DEG K)
T-ET 34. DEG F (274. DEG K)
HAC 4.03 GM/M3 (.00403 KG/M3)
NFA 5435. RPM (569. RAD/SEC)
NFK 5548. RPM (581. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.0	53.2	57.4	60.2	60.5	59.2	55.2	48.3	47.3	49.5	47.1						
125	43.7	44.8	49.7	46.9	49.0	48.3	45.6	48.8	48.2	45.9	44.7						
160	40.6	44.5	45.2	45.8	46.4	46.5	46.5	47.7	47.1	46.8	44.7						
200	39.3	43.9	45.1	44.7	46.8	47.9	48.4	48.8	48.0	48.8	46.0						
250	41.9	44.8	46.5	47.1	48.0	48.3	48.8	48.7	48.1	47.0	44.3						
315	44.6	47.5	48.4	49.1	49.7	50.3	49.7	48.6	48.0	47.1	44.0						
400	43.5	46.4	47.1	47.7	49.6	49.7	49.6	49.0	48.1	47.2	43.1						
500	40.6	44.5	45.0	46.9	47.7	49.1	49.8	49.9	48.7	47.0	42.6						
630	44.0	46.9	48.9	49.8	51.7	53.3	54.2	53.3	52.4	49.3	43.3						
800	44.9	49.0	50.2	51.2	53.5	54.9	55.8	55.4	54.2	52.1	44.3						
1000	45.5	47.1	49.6	52.1	54.9	57.8	60.2	60.8	59.3	57.2	47.2						
1250	59.1	59.0	62.2	65.8	69.8	71.2	73.8	73.8	70.3	66.4	54.3						
1600	52.4	53.8	58.8	59.4	62.7	64.8	67.1	66.4	62.9	59.7	48.4						
2000	49.2	52.2	54.6	57.2	59.5	61.0	62.4	62.4	59.4	56.1	46.4						
2500	51.7	55.7	57.7	60.9	62.4	65.2	68.4	68.2	65.4	61.8	51.0						
3150	43.1	52.2	54.6	57.9	60.6	63.4	64.4	64.1	61.5	58.6	47.7						
4000	47.3	50.9	53.9	57.4	61.0	63.0	64.1	64.3	62.9	58.5	46.1						
5000	44.4	48.6	52.1	55.4	59.5	61.9	62.3	62.2	60.5	55.8	43.7						
6300	42.1	46.4	49.3	53.4	56.6	59.5	60.6	60.7	59.5	53.5	41.2						
8000	39.6	43.9	47.2	51.3	54.5	57.3	58.2	58.1	56.9	51.1	37.0						
10000	36.3	41.2	45.2	49.1	52.6	55.1	56.1	56.1	55.4	48.2	33.5						
12500	33.0	37.7	41.2	45.7	49.6	51.8	53.1	52.8	51.8	43.4	27.8						
16000	25.2	31.1	34.3	38.7	43.0	45.1	46.8	47.3	44.5	34.5	15.5						
20000	18.7	25.1	28.4	33.0	36.7	39.6	41.1	40.9	38.2	25.7	2.5						
25000	8.7	17.8	20.5	25.0	28.6	30.6	31.8	30.5	25.4	12.3							
31500		5.5	8.7	13.7	17.2	20.1	19.7	17.6	10.8								
40000						1.6	1.3										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.3	64.2	67.1	70.1	73.2	74.9	77.0	76.9	74.6	70.3	60.0						
PNDB	73.0	76.6	78.9	81.9	84.2	86.5	86.6	86.4	86.0	82.4	72.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 17 YR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (ARP RADIANS)

	FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	155. (2.73)	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0.)	PWL
RADIAL 17. FT.	50																			
	63																			
	80																			
(5. FT	100	74.8	78.1	79.9	82.2	82.1	80.7	78.1	72.2	69.7	74.1	76.1								112.9
VEHICLE AREA	125	68.3	67.1	71.4	69.2	73.9	69.2	68.4	71.2	72.7	72.6	74.6								109.3
CONFIG 23	160	68.8	66.9	66.9	67.7	68.8	67.2	68.6	70.4	72.2	74.1	74.4								104.1
LOC SCHENECTADY	200	66.8	68.1	67.1	67.9	69.1	70.0	71.6	73.9	74.8	76.6	77.1								108.8
DATE 12/11/74	250	68.8	69.4	68.9	69.9	71.9	72.4	73.1	73.6	74.2	75.3	75.6								106.7
RUN 35/4	315	71.3	71.6	71.9	72.2	72.6	72.7	72.8	73.4	74.0	75.3	74.8								107.1
TAPE	400	70.3	71.1	71.4	71.7	71.7	72.7	73.6	74.4	74.0	74.8	73.6								107.0
BAR 29.8 HG	500	69.1	68.6	68.9	69.4	70.6	72.4	74.1	75.4	75.5	75.1	73.4								100.9
(0.0067 M/M3)	630	72.6	71.8	72.4	73.4	75.2	77.2	78.1	76.2	78.7	74.8	75.8								110.7
TAMB 43. DEG F	800	74.1	72.6	73.1	73.7	75.9	77.7	78.8	76.1	79.7	79.1	75.4								111.1
(279. DEG R)	1000	70.9	70.9	71.1	74.2	78.1	78.2	80.1	81.1	81.7	81.6	78.1								112.4
THET 38. DEG F	1250	75.7	74.9	77.6	80.3	82.7	84.7	84.6	87.6	87.5	87.4	78.4								110.5
(276. DEG R)	1600	75.9	75.9	78.4	80.2	83.0	85.9	86.1	87.1	86.0	84.9	77.9								117.9
MACT 4.59 GP/MS	2000	76.7	76.7	78.4	81.6	83.7	85.5	86.6	86.6	85.7	84.6	78.6								118.1
(0.0459 KG/M3)	2500	77.7	78.5	79.9	82.4	85.0	87.8	88.8	90.4	91.0	91.7	83.1								121.6
NFA 5494. RPM	3150	76.4	76.2	78.9	81.7	84.3	87.3	89.5	89.6	89.0	89.4	80.8								120.7
(575. RAD/SEC)	4000	74.9	76.3	78.3	81.9	84.5	87.2	89.0	90.5	89.9	89.6	81.0								120.9
NFK 5581. RPM	5000	73.3	73.9	76.0	79.6	82.7	85.0	87.7	89.2	89.8	89.8	80.7								119.7
(584. RAD/SEC)	6300	71.7	72.8	75.0	78.3	81.4	84.4	86.9	88.5	88.9	88.8	79.8								117.8
NFB 8823. RPM	8000	70.3	71.4	73.5	77.0	80.3	83.1	85.5	87.3	87.5	85.8	78.9								117.7
(924. RAD/SEC)	10000	69.4	70.1	72.6	76.1	79.4	82.0	85.5	87.0	86.4	85.3	79.6								117.8
NO. OF BLADES 15	12500	69.7	68.8	70.7	74.7	77.6	80.6	83.8	85.9	87.1	83.9	78.1								116.7
FAN TIP SPEED	16000	66.0	66.5	67.6	71.4	74.8	77.6	81.0	83.9	84.9	81.0	75.5								114.6
480. FT/SEC	20000	65.8	65.4	66.4	71.8	72.7	76.6	80.4	83.0	83.1	80.8	74.8								114.6
	25000	66.3	65.4	66.2	71.3	71.2	75.5	78.2	80.6	82.1	79.8	72.5								113.8
	31500	64.9	64.3	64.8	71.4	73.8	75.8	77.0	80.1	81.2	77.3	70.6								113.8
	40000	64.4	63.3	64.0	67.4	68.8	71.9	74.5	76.3	78.6	75.5	68.2								111.3
	50000	67.0	64.9	65.9	65.2	66.5	69.8	72.1	72.2	73.3	71.4	64.8								110.8
	63000	68.3	65.0	67.5	65.5	65.7	67.6	68.3	66.8	67.8	67.9	63.6								110.8
	80000	72.3	70.1	69.9	66.8	67.4	68.2	68.2	67.3	66.6	66.7	65.3								115.4
OVERALL MEASURED																				
OVERALL CALCULATED		87.1	87.1	89.1	91.8	94.8	96.4	98.2	99.5	99.7	98.5	91.9								130.7
	PNLT	99.7	100.0	101.9	104.6	107.8	109.4	111.3	112.3	112.2	111.9	105.8								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 17 NR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.78)	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.)
	50																		
	63																		
SIDELINE 200. FT.	80																		
(90.96 F)	100	51.1	53.4	57.8	60.5	60.5	58.7	55.9	49.1	45.3	47.5	48.0							
VEHICLE R=55	125	44.5	44.3	49.2	47.4	52.2	47.3	46.1	48.0	48.2	45.9	44.4							
CONFIG 23	160	42.9	44.0	44.7	45.8	46.9	48.3	46.2	47.2	47.6	47.3	43.9							
LOC SCHEREGTADY	200	42.1	43.1	44.8	46.4	47.3	48.7	49.2	49.6	49.2	46.6	46.4							
DATE 12/11/74	250	44.7	46.3	47.5	47.9	50.9	50.3	50.6	50.2	49.3	46.2	44.7							
RUN 35/4	315	47.1	48.5	49.4	50.1	50.7	50.5	50.2	49.9	49.0	48.1	43.8							
TAPE	400	46.0	47.7	48.8	49.5	47.8	50.4	50.9	50.8	48.9	47.4	42.5							
BAR 29.8 MG	500	44.7	45.3	46.2	47.2	48.5	50.1	51.3	51.7	50.7	47.5	41.8							
(99867. N/M2)	630	48.1	48.2	49.6	51.1	52.9	54.8	55.2	55.3	53.4	51.1	43.5							
TAMB 43. DEG F	800	49.4	49.3	50.2	51.2	53.5	54.7	55.8	55.2	53.7	51.1	43.2							
(279. DEG K)	1000	46.1	47.1	48.1	51.6	53.7	55.0	56.9	57.0	54.6	53.4	41.8							
TSET 38. DEG F	1250	50.7	51.8	54.5	57.5	60.1	61.9	63.3	63.3	61.6	58.9	45.5							
(276. DEG K)	1600	56.7	55.8	55.0	57.9	60.2	62.0	62.8	62.8	59.8	56.2	44.8							
HACT 4.59 GM/M3	2000	51.2	52.4	54.8	58.5	60.8	62.4	62.9	61.9	59.4	55.8	44.9							
(.00459 KG/M3)	2500	52.8	53.5	56.2	59.1	61.9	64.5	64.9	65.4	64.4	62.3	48.9							
NFA 5494. RPM	3150	50.4	51.4	54.8	58.1	60.9	63.7	65.4	64.3	62.0	59.8	45.9							
(575. RAD/SEC)	4000	48.3	50.7	53.8	57.9	60.7	63.2	64.3	64.8	62.3	58.0	45.0							
NFK 5581. RPM	5000	46.5	48.4	51.3	55.4	58.7	61.7	62.8	63.2	62.0	55.8	44.1							
(584. RAD/SEC)	6300	44.2	46.4	49.5	53.3	56.8	59.5	61.3	61.7	60.0	54.5	41.4							
NFD 6823. RPM	8000	41.2	43.8	46.9	51.3	54.5	57.0	58.7	59.1	57.1	50.8	37.6							
(924. RAD/SEC)	10000	38.3	40.7	44.4	48.6	52.1	54.4	57.1	57.1	55.9	48.4	34.4							
NO. OF BLADES 15	12500	35.8	36.9	40.2	44.9	48.1	50.8	52.8	53.3	51.5	43.1	27.1							
FAN TIP SPEED	16000	27.4	30.5	33.3	37.9	41.7	44.1	46.3	47.0	44.2	33.7	15.2							
480. FT/SEC	20000	21.1	24.0	27.0	33.6	34.8	38.4	40.6	40.5	37.8	29.8	2.8							
	25000	12.9	16.2	19.6	26.2	28.5	30.3	31.1	30.1	25.3	11.1								
	31500		3.7	7.6	16.2	18.2	19.6	19.2	17.5	10.5									
	40000						1.5	0.7											
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		61.3	62.5	65.4	68.3	70.8	72.5	73.4	73.4	71.6	68.2	57.8							
PNDB		73.7	75.2	77.9	80.8	83.5	85.8	87.0	86.8	85.2	82.2	70.2							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 12 DAY 17 YR. 19.6

NOISE SOUND PRESSURE LEVELS (59. LEG, P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	66. (1.15)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 60																		
(5. MI 100	74.5	75.6	73.9	73.4	73.6	75.7	69.9	70.9	73.0	77.1	79.6							108.2
VEHICLE RUNS 125	70.0	70.4	72.9	71.4	74.1	71.9	71.6	73.7	75.5	76.6	79.1							107.9
CONFIG 23 160	69.3	69.4	69.6	70.4	71.1	70.7	71.9	73.9	76.0	77.8	79.4							107.7
LCC SCHENECTADY 200	68.5	68.4	69.6	70.4	71.6	73.4	74.6	76.1	77.5	79.8	80.3							109.1
DATE 12/11/74 250	71.3	70.9	72.1	72.8	73.4	74.4	75.3	75.9	77.0	78.6	78.8							109.2
RUN 35/5 315	74.3	74.4	74.6	75.2	76.1	75.7	75.8	76.4	77.0	78.4	78.8							110.3
TAPE 400	72.6	73.4	73.6	74.2	74.1	75.2	75.4	76.9	77.7	78.8	78.1							109.8
BAR 29.8 MG 500	71.6	72.3	71.4	71.9	73.4	75.2	76.9	77.9	78.0	78.1	76.6							109.6
(100827. N/M2) 630	74.8	73.6	74.6	75.7	77.4	79.4	80.4	81.2	81.2	81.1	78.1							112.9
TAMB 44. DEG F 800	75.4	74.4	75.6	76.2	77.9	79.9	80.6	81.2	82.2	81.3	77.9							113.3
(280. DEG K) 1000	73.1	72.9	73.8	76.4	78.6	80.5	81.8	83.1	83.7	83.1	78.9							114.4
TWET 38. DEG F 1250	74.7	74.7	76.9	80.3	81.9	83.7	85.6	85.4	85.7	85.4	78.8							117.1
(276. DEG K) 1600	82.7	83.9	84.4	86.5	90.0	91.0	91.8	92.6	92.0	90.8	83.9							123.9
HACT 4.30 GM/M3 2000	78.9	77.5	81.6	84.3	86.5	88.3	89.8	89.4	89.0	84.9	81.4							121.9
(.00430 KG/M3) 2500	78.9	79.7	81.4	84.8	88.8	89.5	91.1	90.4	91.5	88.4	81.9							122.2
NFA 6277. RPM 3150	80.9	81.2	83.6	86.4	89.3	91.5	93.3	94.1	95.5	94.2	86.8							125.5
(657. RAD/SEC) 4000	78.4	79.2	81.8	85.4	87.5	91.2	92.5	92.5	91.9	90.1	82.9							121.6
NFK 6370. RPM 5000	79.6	80.4	82.0	85.9	88.0	90.5	92.9	93.2	92.9	90.1	84.0							124.0
(667. RAD/SEC) 6300	76.7	77.5	79.8	82.5	86.1	88.2	91.5	91.8	92.4	89.1	83.3							122.8
NFD 8823. RPM 8000	75.1	77.2	78.1	81.5	84.4	87.6	89.8	90.8	91.3	88.5	82.2							121.6
(924. RAD/SEC) 10000	75.2	77.9	77.6	81.4	84.7	87.3	89.8	90.8	92.4	89.1	83.1							122.1
NO. OF BLADES 16 12500	76.0	78.1	77.0	80.5	82.6	85.7	88.2	90.7	91.4	87.7	81.6							121.3
FAN TIP SPEED 16000	74.1	79.4	76.5	79.2	80.1	84.4	86.0	86.5	89.2	85.6	79.8							119.6
948. FT/SEC 20000	76.6	81.7	75.2	79.9	80.0	85.1	86.3	86.6	89.9	86.4	79.4							120.6
25000	80.5	84.2	71.2	83.3	79.5	84.3	84.0	86.6	87.4	84.5	77.5							120.0
31500	78.9	83.4	69.3	82.4	78.0	83.0	83.5	86.1	86.0	83.1	76.6							119.9
40000	78.6	80.7	66.9	82.2	74.4	78.8	80.4	82.7	83.0	79.7	78.9							118.3
50000	67.6	76.2	67.0	82.8	70.6	75.2	76.9	78.8	78.7	76.8	66.9							117.2
63000	70.1	70.5	67.5	80.2	67.2	72.1	71.4	72.3	71.8	71.8	63.9							116.2
80000	71.9	70.0	69.6	74.3	67.1	69.4	67.9	68.8	68.8	67.7	65.0							116.8
OVERALL MEASURED																		
OVERALL CALCULATED	91.2	93.3	92.5	96.2	97.8	100.3	102.1	102.8	103.3	101.9	95.3							134.5
PNOB	103.4	104.8	103.7	108.4	111.8	113.1	114.8	115.4	116.3	114.8	108.7							

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PAGE 3 FULL SCALE DATA REPLOTTING PROGRAM PROG. DATE = MONTH 12 DAY 17 HR. 19.0

MODEL SOUND PRESSURE LEVELS (SD, LEG, F, 70 PERCENT REL. HUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	50.9	52.9	51.8	51.7	52.0	48.9	47.7	47.8	48.5	50.5	49.5						
VEHICLE R-55	125	46.3	47.6	50.7	49.6	52.5	50.1	49.3	50.5	50.9	49.9	48.9						
CONFIG 23	160	45.4	46.5	47.4	48.6	49.4	48.8	49.5	50.7	51.3	51.8	48.9						
LOC SCHENECTADY	200	44.6	45.4	47.3	48.5	49.8	51.4	52.2	52.8	52.7	52.6	49.7						
DATE 12/11/74	250	47.2	47.8	49.7	50.6	51.5	52.3	52.8	52.5	52.1	51.5	48.0						
RUN 35/5	315	50.1	51.2	52.1	53.1	54.2	53.5	53.2	52.9	52.9	51.6	47.8						
TAPE	400	48.3	50.1	51.1	52.3	52.1	52.9	52.6	53.3	52.6	51.4	48.8						
BAR 29.8 HG	500	47.2	47.5	48.7	49.7	51.2	52.9	54.0	54.2	52.7	50.5	45.8						
(100857. N/M2)	630	50.1	50.2	51.9	53.3	55.2	57.0	57.4	57.3	55.9	53.3	46.3						
TAMB 44. DEG F	800	50.7	50.9	52.7	53.7	55.5	57.4	57.5	57.2	56.7	53.4	45.5						
(280. DEG K)	1000	48.3	49.1	50.6	53.8	56.2	57.9	58.7	59.0	58.0	54.9	44.4						
THET 30. DEG F	1250	49.7	50.8	53.7	57.3	59.3	60.9	62.3	61.1	59.8	56.9	45.8						
(276. DEG K)	1600	57.5	59.8	61.0	63.9	67.2	66.8	68.3	64.1	65.9	61.9	50.6						
HACT 4.30 GM/M3	2000	53.5	55.2	58.1	61.2	63.5	65.1	66.1	64.7	62.6	57.8	47.6						
(.00430 KG/M3)	2500	53.3	55.2	57.7	61.4	63.6	64.2	67.2	65.4	64.9	59.1	47.7						
NFA 6277. RPM	3150	54.9	56.4	59.6	62.9	65.9	67.9	69.1	68.8	68.5	64.3	51.9						
(657. RAD/SEC)	4000	51.8	53.9	57.4	61.4	63.7	67.2	67.9	66.8	64.4	59.5	46.8						
NFK 6320. RPM	5000	51.8	54.6	57.3	61.7	64.0	66.2	68.0	67.2	65.0	59.1	47.4						
(662. RAD/SEC)	6300	54.9	51.2	54.3	57.6	61.4	63.2	65.8	64.9	63.5	58.8	46.9						
NFB 8023. RPM	8000	46.8	49.6	51.5	55.5	58.5	61.6	63.0	62.6	60.9	54.3	40.9						
(824. RAD/SEC)	10000	44.1	46.3	49.4	54.1	57.4	59.7	61.4	60.9	59.9	52.2	37.9						
NO. OF BLADES 15	12500	42.1	46.2	46.5	50.7	53.1	55.8	57.4	56.1	55.8	46.9	30.7						
FAN TIP SPEED	16000	35.5	43.4	47.1	45.9	47.8	50.9	51.4	51.6	48.6	38.3	19.5						
548. FT/SEC	20000	32.0	40.3	35.8	41.7	42.1	46.7	46.5	46.1	42.6	30.8	6.6						
	25000	27.2	35.0	24.7	38.2	34.8	39.8	38.9	38.9	38.5	18.7							
	31500	12.8	22.7	12.2	27.2	23.4	27.6	25.7	23.6	15.2								
	40000		3.2		12.0	5.1	8.4	6.7	2.6									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.2	66.1	66.2	71.3	73.9	75.9	76.9	76.2	74.8	70.3	58.9						
PNLP		77.3	79.0	81.7	84.8	87.5	89.4	90.5	90.0	89.1	84.8	73.8						

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OF POOR QUALITY

PAGE 1 FULL SCALE DATA [illegible] PROGRAM — PROC. DATE = "DATM 12 DAY 17 MR. 19.8

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FRE..	33. (.58)	66. (1.0)	71. (1.24)	91. (1.6)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. MI)	100	67.3	70.6	71.9	71.2	71.6	71.7	71.4	72.4	75.2	79.3	83.1								108.9
VEHICLE R005	125	72.0	77.6	79.6	78.7	78.4	77.2	75.4	77.9	79.2	80.8	83.4								112.8
CONFIG 23	160	71.5	71.9	71.9	72.7	73.4	73.7	74.9	77.2	78.7	81.3	83.1								116.8
LOC SCHENECTADY	200	71.3	70.9	71.6	72.2	76.4	77.1	76.9	78.9	80.2	82.8	84.1								112.8
DATE 12/11/74	250	75.0	74.5	76.1	78.1	77.4	77.8	79.1	79.4	80.7	81.5	83.1								112.9
RUN 35/6	315	76.8	76.9	77.4	77.4	77.9	78.4	78.3	79.4	81.8	81.8	82.3								113.0
TAPE	400	75.3	75.4	75.7	75.5	76.1	76.7	77.8	78.4	79.5	81.1	81.3								111.9
BAR 29.8 HG	500	74.3	73.6	73.1	74.9	76.1	77.2	79.4	80.7	81.8	80.5	79.9								112.3
(100867. N/M2)	630	76.7	75.9	76.9	77.2	79.9	81.4	83.4	83.4	83.5	83.1	80.4								115.3
TAMB 44. DEG F	800	77.6	76.3	77.4	78.3	80.6	82.4	83.3	84.4	84.2	83.1	80.1								115.8
(280. DEG K)	1000	76.5	75.1	75.1	79.3	80.9	82.7	83.8	84.9	85.5	84.1	79.4								116.2
TWET 38. DEG F	1250	76.7	75.9	79.6	81.8	84.2	86.2	87.1	86.6	87.0	85.4	80.4								118.6
(276. DEG K)	1600	78.9	82.6	86.4	88.6	91.7	93.0	94.3	94.4	93.2	90.4	85.1								125.5
WACT 4.30 GM/S	2000	79.4	83.7	86.6	89.3	92.2	93.5	95.3	95.1	93.8	90.7	85.8								126.2
(.0043 KG/S)	2500	79.9	84.3	85.6	89.1	91.0	93.3	93.3	92.6	92.6	88.2	83.9								124.9
WFA 7065. RPM	3150	82.4	83.2	86.1	89.4	92.5	94.5	95.5	95.1	96.3	91.9	86.6								127.8
(740. RAD/SEC)	4000	81.9	83.2	86.6	89.7	92.8	95.2	96.2	96.5	96.2	92.1	86.8								127.6
WFK 7169. RPM	5000	82.6	82.4	85.0	88.6	91.3	93.7	95.9	96.2	95.6	91.8	85.7								126.9
(751. RAD/SEC)	6300	79.7	80.6	84.3	86.8	90.4	92.7	93.7	95.3	95.9	91.8	85.1								126.2
WFD 8823. RPM	8000	77.6	79.9	82.8	85.6	89.1	91.4	93.5	95.0	95.1	90.8	84.9								125.4
(924. RAD/SEC)	10000	77.2	78.4	81.6	85.6	88.7	91.3	94.1	94.8	96.2	91.3	85.6								125.9
NO. OF BLADES 19	12500	76.0	78.8	79.8	83.7	87.4	89.4	92.4	94.4	94.6	90.2	84.1								124.9
FAN TIP SPEED	16000	75.8	73.9	77.0	80.4	84.1	87.2	90.0	92.2	92.7	87.1	82.6								122.8
617. FT/SEC	20000	71.9	72.7	76.2	80.4	83.5	86.6	90.3	92.4	93.9	88.1	82.1								123.7
	25000	71.2	71.2	74.5	79.5	82.5	85.5	88.9	91.1	92.1	86.8	80.8								122.9
	31500	69.6	70.1	73.0	79.6	81.0	84.7	87.5	89.8	90.5	85.4	78.7								122.5
	40000	67.4	67.7	71.7	76.2	78.1	82.1	84.9	86.2	87.5	82.4	73.8								120.8
	50000	67.6	66.0	68.7	74.6	74.6	78.5	80.9	81.6	82.7	79.8	69.1								118.4
	63000	66.3	65.3	67.8	68.7	68.9	72.4	74.9	74.8	75.4	73.1	64.2								115.8
	80000	71.9	71.0	69.6	67.0	67.3	68.2	68.9	68.5	69.0	67.4	65.0								115.9
OVERALL MEASURED																				
OVERALL CALCULATED		92.5	93.1	95.9	98.8	101.6	103.7	105.4	106.8	106.3	102.3	97.8								137.4
	PNOW	135.5	136.2	139.0	141.8	144.5	146.7	147.9	148.2	148.2	144.8	140.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 17 HR. 19.6

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	66. (1.15)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	43.8	47.9	49.8	49.7	53.8	49.9	49.2	49.3	50.4	52.4	53.8						
VEHICLE APOLLO	125	48.3	54.6	57.5	56.9	56.7	55.3	53.1	54.8	54.7	54.2	53.1						
CONFIG 23	160	47.7	49.5	49.7	50.8	51.6	51.8	52.5	53.9	54.1	54.5	52.6						
LOC SCHENECTADY	200	47.3	47.7	49.3	50.2	52.6	54.2	54.4	55.4	55.5	55.6	53.4						
DATE 12/11/74	250	51.8	51.5	53.7	54.1	55.5	55.6	56.6	56.9	55.8	54.7	52.2						
RUN 35/6	315	52.6	53.7	54.9	55.1	55.9	56.3	55.7	55.9	55.0	54.6	51.3						
TAPE	400	51.6	52.1	53.3	53.7	54.1	54.1	54.9	54.9	54.4	53.7	50.9						
BAR 29.8 MG	500	49.9	50.3	50.5	52.7	54.0	54.7	56.5	56.9	55.7	53.3	48.3						
(98667. N/M2)	630	52.3	52.4	54.1	55.8	57.7	59.0	60.4	59.6	58.1	55.3	48.5						
TAMB 44. DEG F	800	52.0	53.3	54.5	56.5	58.3	58.9	60.3	60.4	58.7	55.1	48.8						
(280. DEG K)	1000	50.8	51.4	53.1	56.3	58.4	60.1	60.7	60.8	59.8	55.9	46.9						
TWET 38. DEG F	1250	51.7	52.9	56.5	59.8	61.6	63.4	63.8	62.3	61.1	56.9	47.5						
(276. DEG K)	1600	52.7	56.3	61.0	65.5	67.3	70.0	70.6	68.9	67.1	61.7	51.9						
HACT 4.38 GM/M3	2000	54.8	59.4	63.1	68.2	69.3	70.4	71.6	70.4	67.4	61.8	51.9						
(.00438 KG/M3)	2500	57.3	59.5	61.9	65.0	67.9	70.0	69.4	67.7	66.1	58.9	49.7						
MFA 7005. RPM	3150	56.4	58.4	62.1	65.9	69.1	70.9	71.4	69.8	68.2	62.1	51.7						
(740. RAD/SEC)	4000	55.3	57.9	62.1	65.7	69.8	71.2	71.6	70.8	68.6	61.5	50.8						
MFK 7169. RPM	5000	53.8	58.9	60.3	64.7	67.0	69.4	71.0	70.2	68.8	60.8	49.1						
(751. RAD/SEC)	6300	51.9	54.4	58.8	61.9	65.8	67.7	69.1	68.4	67.8	59.5	48.8						
MFD 8023. RPM	8000	48.5	51.4	56.2	59.5	63.3	65.3	66.7	66.9	64.6	56.8	47.7						
(924. RAD/SEC)	10000	46.1	49.8	53.4	58.1	61.4	63.7	65.6	64.9	63.7	54.4	46.4						
NO. OF BLADES 15	12500	42.1	45.6	49.2	54.0	57.9	59.6	61.6	61.8	59.3	49.4	39.2						
FAN TIP SPEED	16000	34.3	37.9	42.6	47.8	51.8	53.6	55.4	55.3	52.1	38.8	22.2						
617. FT/SEC	20000	27.2	31.3	36.8	42.2	45.6	48.2	50.5	49.8	46.6	32.4	9.3						
	25000	17.7	22.8	27.9	34.7	37.8	40.3	41.7	40.4	35.3	18.9							
	31500	3.6	9.5	15.9	24.5	28.4	29.4	29.7	27.3	19.7								
	40000				6.3	8.8	11.7	11.2	6.1									
	50000																	
	63000																	
	80000																	
@OVERALL CALCULATED	OASPL	66.5	68.2	71.6	74.7	77.6	79.3	80.1	79.2	77.3	71.2	63.7						
	PNDB	79.4	81.3	84.8	88.0	90.9	92.8	93.4	92.6	91.0	84.7	78.3						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 12 DAY 17 HR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (ARP DATUM)															
	FREQ.	39. (1.02)	46. (1.16)	71. (1.80)	81. (1.40)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.11)	133. (2.33)	145. (2.52)	159. (2.73)	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.3	72.3	73.9	72.9	74.1	74.1	74.4	74.6	77.9	82.5	86.8							112.8
VEHICLE RPSS	125	74.8	78.3	81.1	81.9	32.5	81.1	82.4	84.9	84.4	85.7	88.3							117.3
CONFIG 23	160	75.3	75.1	75.4	76.1	78.9	78.1	78.6	79.4	81.6	84.0	86.3							113.8
LOC SCANNECTADY	200	75.2	74.3	74.3	75.4	77.6	78.9	80.1	81.4	82.4	85.4	87.8							114.8
DATE 12/11/74	250	78.2	78.0	78.8	79.6	81.1	81.1	82.3	83.8	83.6	84.4	86.5							116.2
RUN 35/7	315	79.5	79.3	79.6	80.4	82.9	82.6	81.1	82.1	82.9	84.7	85.8							115.8
TAPE	400	78.3	79.1	79.3	78.4	77.1	79.9	81.1	82.1	82.4	84.2	85.1							115.2
BAR 29.6 HG	500	77.3	77.3	76.4	77.2	78.6	80.4	82.3	83.6	83.9	84.2	83.8							115.4
(100027. N/M2)	630	79.3	78.6	79.6	80.4	81.9	83.7	85.3	85.6	85.4	85.5	82.8							117.5
TAMB 44. DEG F	800	83.1	81.1	82.3	81.6	83.6	85.2	86.8	86.9	87.1	86.7	83.3							119.1
(279. DEG K)	1000	78.9	78.3	79.1	81.4	83.4	85.2	87.1	87.6	87.6	86.5	82.8							119.5
TWET 36. DEG F	1250	79.6	78.8	81.6	84.2	85.9	88.2	89.1	89.1	88.1	89.3	82.8							120.9
(277. DEG K)	1600	82.1	82.4	84.6	86.9	89.2	91.2	92.1	91.6	90.8	88.8	82.8							123.3
MACT 4.82 CM/MS	2000	93.4	89.9	92.6	93.8	96.2	96.2	96.8	96.3	97.7	92.8	88.8							130.4
(.00482 KG/M3)	2500	84.1	85.7	87.8	90.8	93.5	95.7	96.5	95.3	95.2	90.8	87.8							127.8
NFA 785. RPM	3150	84.6	84.7	87.3	91.1	94.8	95.7	97.5	96.3	97.7	92.5	87.8							128.4
(82. RAD/SEC)	4000	86.1	86.4	89.8	93.3	96.2	97.7	98.9	160.2	96.6	94.2	90.2							130.7
NFK 2944. RPM	5000	83.8	85.1	88.2	91.8	94.5	96.4	98.4	96.4	98.3	92.8	88.4							129.4
(838. RAD/SEC)	6300	85.9	88.2	87.2	91.6	94.1	96.8	98.7	98.7	99.6	93.9	89.8							129.8
NFB 8823. RPM	8000	91.8	82.9	85.7	89.4	91.8	94.8	97.2	98.8	98.4	92.1	87.6							128.6
(924. RAD/SEC)	10000	90.8	81.7	85.8	89.3	91.6	94.9	96.5	98.7	98.5	93.1	88.8							128.9
NO. OF BLADES 15	12500	88.3	83.7	87.6	87.9	91.1	94.1	96.3	97.8	98.3	92.9	87.3							128.4
FAN TIP SPEED	16000	77.2	78.2	80.8	84.3	87.8	91.8	93.7	96.8	95.8	90.1	85.2							126.5
665. FT/SEC	20000	76.7	77.3	80.0	84.0	86.9	90.4	93.4	95.7	95.7	89.9	85.8							126.5
	25000	77.1	77.4	79.5	83.3	87.0	90.8	92.8	95.3	95.8	89.7	85.8							126.9
	31500	75.9	76.3	78.5	82.4	85.8	89.5	91.8	94.3	94.2	88.8	83.1							126.6
	40000	75.0	74.8	76.5	79.5	83.3	85.9	89.5	91.1	91.3	85.9	77.9							123.2
	50000	76.9	75.9	77.3	77.8	80.1	83.5	87.8	86.6	86.9	83.4	75.1							121.5
	63000	78.8	74.7	77.8	75.9	78.7	79.3	81.8	83.5	80.7	78.3	73.8							121.8
	80000	42.6	77.1	80.2	77.1	77.7	78.5	78.5	77.6	76.5	76.4	79.5							120.4
OVERALL MEASURED																			
OVERALL CALCULATED		96.5	96.6	99.8	101.5	104.5	106.6	108.3	109.1	109.1	104.3	100.9							140.5
		107.4	109.3	111.9	114.9	117.9	119.2	120.8	121.3	121.8	118.8	113.3							

PAGE 3 FULL SCALE DATA PRINTOUT FORMAT — PROC. DATE = MONTH 12 DAY 17 HR. 19.0

FULL SCALE SOUND PRESSURE LEVELS (90. DEG. TO THE PLANE OF THE DISK, NOM. DAY)

		ANGLES FROM INLET IN DEGREES (FROM FAIRING)											
		53.	62.	71.	81.	94.	101.	111.	122.	133.	145.	159.	0.
	FREQ.	(0.92)	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.35)	(2.52)	(2.73)	(0.
	50												
	63												
SIDELINE 200. FT.	80												
(86.98 DB)	100	61.6	60.6	51.8	51.2	52.5	52.6	52.1	51.6	53.5	55.9	54.8	
VEHICLE B-55	125	51.8	55.2	48.9	47.1	61.8	49.3	48.1	61.7	56.6	59.8	58.1	
CONFIG 23	160	51.4	52.2	53.1	54.2	55.1	54.2	56.2	56.4	57.6	57.1	55.9	
LOC SCHEDECTADY	200	51.3	51.3	52.5	53.4	55.8	56.9	57.6	56.8	57.8	58.5	56.4	
DATE 12/17/74	250	54.2	55.8	58.4	57.6	56.2	59.8	59.9	56.4	54.8	56.3	55.7	
RUN 35/	315	55.3	56.1	57.1	58.3	58.9	58.5	58.5	58.8	57.9	57.6	56.7	
TAPE	400	54.3	55.3	55.8	56.2	57.1	57.4	58.4	57.5	57.5	56.5	53.7	
BAR 29.8 MB	500	52.9	53.9	54.2	55.6	56.5	58.1	59.5	59.9	58.7	56.8	57.2	
(1000 FT. MSL)	630	54.8	55.1	56.4	58.9	59.7	61.2	62.4	61.8	60.8	57.7	52.8	
TAPS 44. DEG F	800	58.4	57.3	59.4	59.2	61.3	62.6	63.8	62.9	61.6	57.7	53.2	
(280. DEG K)	1000	54.3	54.6	56.1	56.4	62.9	62.5	63.9	63.5	61.9	62.3	56.3	
TWET 39. DEG F	1250	54.6	54.9	58.4	61.3	63.3	65.4	65.8	64.8	62.3	61.1	58.8	
(277. DEG K)	1600	55.9	58.3	61.2	63.4	66.4	68.2	68.6	67.1	62.5	60.8	57.6	
MACT 0.02 GM/M3	2000	64.9	65.6	69.8	70.7	73.8	75.1	75.1	74.6	71.3	63.7	56.1	
(0.00002 KG/M3)	2500	57.5	61.1	63.9	67.5	70.4	72.4	72.7	70.4	68.5	60.7	52.4	
NFA 7850. RPM	3150	58.6	59.8	63.3	67.5	70.6	72.1	73.3	71.8	70.6	62.7	52.9	
(822. RAD/SEC)	4000	59.5	61.1	65.3	69.4	72.4	73.7	74.3	74.5	72.0	63.8	54.2	
NFK 7900. RPM	5000	56.7	58.5	63.5	67.6	70.4	72.1	73.5	72.4	70.4	61.9	51.6	
(827. RAD/SEC)	6300	56.1	58.8	61.7	65.5	69.3	71.4	73.8	71.9	71.5	61.6	50.6	
NFB 8423. RPM	8000	51.9	55.3	59.1	63.4	66.8	68.7	70.4	69.8	66.6	57.9	48.3	
(924. RAD/SEC)	10000	49.8	52.4	56.8	61.7	64.3	67.3	68.1	68.8	66.8	56.2	45.8	
NO. OF BLADES 15	12500	49.4	48.8	53.1	58.1	61.5	64.2	65.5	65.8	62.6	51.2	39.3	
TRUE TIP SPEED	16000	38.6	42.2	46.4	51.4	54.6	57.5	59.8	58.7	58.1	48.8	36.8	
869. FT/SEC	20000	32.1	35.9	40.6	45.7	49.8	52.1	53.6	53.2	48.4	34.1	12.2	
	25000	21.7	26.0	32.9	38.2	42.3	44.8	45.7	44.7	39.8	21.8		
	31500	9.8	15.7	21.4	27.2	31.2	34.1	34.8	31.8	23.4	3.1		
	40000			3.7	9.6	13.7	16.5	15.8	10.9				
	50000												
	63000												
	80000												
OVERALL CALCULATED	OASPL	78.2	71.4	74.5	77.5	80.3	81.9	82.7	81.8	78.8	73.3	69.8	
	PNDB	83.6	84.8	87.9	91.1	93.8	95.3	96.1	95.6	93.6	88.8	78.1	

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES RELATIVE INLET IN DEGREES (AFT=180)

		53.	63.	73.	81.	91.	101.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.	0.	PWL
		FREQ. (1.0)(1.26)(1.41)(1.58)(1.78)(1.99)(2.24)(2.51)(2.82)(3.16)(3.55)(0.)(180.)(180.)(180.)(180.)(180.)(180.)																		
		50																		
		63																		
RADIAL	17. FT.	80																		
	S. N.	100	71.3	72.1	73.1	72.4	73.6	74.4	74.1	72.6	77.8	82.2	86.3							111.7
VEHICLE	R-SS	125	75.8	78.3	80.6	82.1	82.6	81.1	82.1	84.2	84.6	85.5	88.1							117.2
CONFIG	23	160	75.5	75.5	75.8	76.4	78.9	76.6	78.4	79.9	81.8	84.8	86.6							113.8
LOC	SCHF-ECTADY	200	75.3	74.3	75.1	75.6	77.1	79.4	79.6	81.4	82.6	85.2	87.5							114.9
DATE	12/11/74	250	78.5	77.5	74.8	79.3	68.1	81.1	82.1	83.6	83.8	84.7	86.5							115.8
RUN	35/6	315	77.3	79.1	79.3	80.1	80.8	80.9	81.1	82.1	82.4	84.4	85.8							115.7
TAPE		400	76.1	77.3	78.1	77.4	79.1	79.9	81.1	81.6	82.4	83.9	84.8							114.9
BAR	29.8 HG	500	77.1	77.1	78.8	77.6	79.1	81.1	82.2	83.6	83.9	84.5	83.6							115.6
	(86667. N/M2)	630	79.3	78.6	79.6	80.4	82.1	83.9	84.8	85.1	85.1	85.8	83.8							117.3
TAMB	44. DEG F	800	81.1	81.3	82.8	81.6	84.4	85.2	86.8	86.9	86.9	85.5	84.8							119.1
	(280. DEG K)	1000	79.9	79.5	79.3	81.2	83.6	85.4	86.3	87.3	87.4	85.2	82.8							118.7
T-ET	30. DEG F	1250	79.4	79.6	82.3	84.7	86.4	86.2	89.6	89.1	88.1	86.5	82.8							120.8
	(277. DEG K)	1600	82.1	82.6	85.1	87.3	87.5	91.2	91.8	91.6	90.9	87.8	83.8							123.3
NACT	4.62 GM/MT	2000	85.4	86.6	88.2	89.3	90.7	90.8	90.1	89.3	88.2	82.3	80.6							126.6
	(.0482 KG/M3)	2500	84.9	85.8	88.1	91.1	94.0	95.5	96.0	95.3	94.9	86.5	86.1							127.3
NFA	7349. APP	3150	84.6	85.2	87.8	90.8	93.8	96.8	97.3	97.5	97.4	92.8	87.5							128.4
	(682. M2/SEC)	4000	86.1	86.4	88.8	93.2	96.2	97.7	99.4	100.8	99.4	94.7	89.5							130.8
NFK	7065. APP	5000	83.8	85.4	88.7	91.8	94.7	96.8	98.8	98.2	98.8	93.2	87.8							129.5
	(656. M2/SEC)	6300	85.8	86.4	88.2	91.9	93.8	96.4	98.9	99.2	98.1	93.8	88.5							129.9
NFD	8023. APP	8000	86.8	87.1	88.8	89.4	92.5	94.8	97.5	97.7	97.2	92.1	87.3							128.3
	(924. M2/SEC)	10000	86.3	87.2	85.8	89.8	91.9	94.8	97.8	98.2	98.8	92.9	88.8							128.8
NO. OF BLADES	15	12500	90.3	91.2	84.6	87.3	91.1	93.8	96.3	97.8	98.5	92.8	87.8							128.8
FAN	TIP SPEED	16000	77.2	77.9	81.6	85.8	87.5	98.8	93.7	95.9	95.3	88.6	85.5							126.2
	805. FT/SEC	20000	74.7	77.3	80.5	85.5	87.1	90.2	93.4	96.6	95.7	89.6	85.8							126.6
		25000	77.6	77.7	80.3	86.3	86.5	90.8	93.8	95.3	95.8	89.9	86.3							127.8
		31500	74.1	76.3	79.8	82.9	85.3	89.5	92.8	94.3	94.4	89.3	83.1							126.8
		40000	75.8	76.9	77.3	80.9	83.8	86.7	88.5	91.1	91.5	86.9	77.4							123.4
		50000	74.4	74.8	77.8	78.3	80.4	83.5	87.8	88.4	87.1	82.9	75.1							123.8
		63000	73.8	74.7	77.2	76.6	78.7	79.1	81.5	82.5	84.7	77.8	73.3							121.8
		80000	82.6	77.1	80.2	77.1	77.7	78.5	78.5	77.8	78.8	78.4	78.8							120.4
	OVERALL MEASURED																			
	OVERALL CALCULATED		96.3	96.6	99.4	102.2	104.6	106.7	108.5	109.1	108.8	104.1	100.6							140.5
		PWL	107.4	107.4	112.2	115.2	117.6	119.2	120.8	121.1	120.9	116.8	112.9							

PAGE 3 FULL SCALE DATA PROCESSING PROGRAM — PROC. DATE = MON. 12 NOV 73 HR. 10.0

MODEL SOUND PRESSURE LEVELS (SPL, DEG. RE 20 MICRONT BAR, NOM. 60%)

ANGLES FROM INLET IN DEGREES (ARC VARIABLE)

	FREQ.	53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.
		(.92)	(1.0)	(1.2)	(1.4)	(1.5)	(1.7)	(1.9)	(2.1)	(2.3)	(2.5)	(2.7)	110.	110.	110.	110.	110.	1
	39																	
	63																	
SIDELINE 200. FT,	80																	
(-90.00 DEG)	100	47.0	49.3	51.0	50.7	52.0	52.0	51.7	51.0	53.5	55.7	56.3						
VEHICLE ANGLE	125	52.0	53.5	50.4	50.3	51.0	49.3	50.0	51.7	50.0	50.0	57.0						
CYCLIC 23	160	51.1	52.2	53.1	54.7	55.1	54.7	54.9	54.0	57.3	57.1	56.1						
LOC SCHEDULED	200	51.0	51.3	52.6	53.7	55.3	57.4	57.1	56.0	57.9	59.2	58.9						
DATE 12/11/73	250	51.3	52.5	54.4	57.3	58.2	59.0	58.6	58.2	58.0	57.0	55.7						
RUN 33/0	315	55.1	55.9	56.0	56.2	58.6	58.7	58.5	57.6	57.9	57.2	54.7						
TAPE	400	54.3	55.3	55.5	56.4	57.1	57.7	57.4	56.0	57.3	56.5	53.2						
BAR 30.0 IN	500	52.7	53.7	54.2	55.4	57.0	58.0	58.0	58.9	58.7	58.9	52.0						
(1000. RPM)	630	55.3	55.1	56.0	58.0	59.9	61.5	61.0	61.3	59.4	57.2	52.0						
TAMB 46. DEG F	800	54.4	57.2	59.9	59.7	62.1	62.8	63.8	62.9	61.4	57.3	52.7						
(1200. RPM)	1000	54.8	54.3	56.3	58.1	61.2	62.8	63.6	63.2	61.7	57.8	50.3						
THOT 30. DEG F	1250	54.6	54.7	56.2	60.0	63.8	65.4	66.3	64.8	62.3	58.1	50.0						
(1500. RPM)	1600	56.9	58.5	61.7	64.1	66.7	66.2	66.3	67.1	64.8	58.9	50.8						
MACT 4.02 GM/M3	2000	64.9	65.3	68.3	71.2	73.8	75.3	75.4	74.6	71.4	63.2	54.9						
(1800RPM KG/M3)	2500	59.7	66.9	64.4	67.8	70.9	72.2	72.2	70.4	68.3	60.2	51.9						
MFA 70.0. SQFT	3150	59.6	60.3	63.1	67.3	70.4	72.4	73.1	71.3	70.4	62.9	52.6						
(2250. KG/SEC)	4000	59.5	61.1	65.6	68.9	72.4	73.7	74.8	74.2	72.6	64.1	53.5						
MFA 70.0. SQFT	5000	59.9	59.8	64.8	67.6	70.7	72.4	74.8	72.1	70.1	62.2	51.3						
(2250. KG/SEC)	6300	58.1	60.1	62.7	67.3	69.1	71.0	73.3	72.6	70.1	61.1	50.1						
MFB 6423. SQFT	8000	51.6	55.5	59.4	63.4	66.7	68.5	70.0	69.5	66.0	57.9	48.1						
(2250. KG/SEC)	10,00	49.8	52.7	57.6	62.2	64.3	67.3	68.6	66.3	64.5	56.0	46.8						
NO. OF BLADES 18	12500	44.4	49.3	54.1	58.6	61.3	64.0	65.5	63.2	62.0	51.2	39.1						
FAN TIP SPEED	14000	38.6	41.9	47.2	52.4	54.6	57.2	58.8	58.8	58.4	49.3	38.1						
885. FT/SEC	16000	32.1	36.9	41.1	47.2	49.2	51.8	53.6	53.4	48.4	33.9	32.2						
	20000	24.2	28.8	33.8	41.2	41.8	44.8	45.9	44.7	39.8	29.1							
	31500	18.1	15.7	21.9	27.7	31.2	34.1	34.2	31.8	23.7	3.4							
	40000			6.3	18.6	14.9	19.3	19.8	18.9	8.8								
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		70.1	71.4	74.8	77.8	80.8	82.8	82.9	81.8	79.7	73.8	66.8						
PNDB		83.6	84.8	88.3	91.4	93.9	95.3	96.3	96.8	93.8	86.5	77.7						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 17 HR. 19.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.0)	71. (1.24)	81. (1.4)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT.																		
(5. M) 100	76.5	77.1	80.9	82.9	83.1	81.4	79.1	73.2	70.7	75.6	77.1							113.9
VEHICLE R-55 125	67.0	67.4	70.6	68.7	72.6	69.2	68.4	70.9	72.2	72.9	74.6							104.9
CONFIG 2J 150	64.8	66.0	66.6	67.4	68.6	68.2	68.9	70.4	72.0	74.1	74.8							104.1
LOC SCHENECTADY 200	65.8	66.4	67.9	67.7	68.9	70.4	72.1	72.9	74.0	75.8	77.1							105.9
DATE 12/11/74 250	68.8	69.4	70.6	70.4	71.5	72.1	73.3	73.9	74.2	75.8	75.8							106.6
RUN 35/9 315	71.5	71.6	71.9	72.7	72.9	73.4	73.1	73.6	74.2	75.3	74.8							107.4
YAPE 400	70.6	71.4	71.1	71.4	71.4	72.7	73.4	73.6	74.0	74.8	74.3							106.9
BAR 29.8 HG 500	68.8	68.4	68.6	69.2	70.4	72.2	73.9	74.9	75.2	75.3	73.9							106.7
(100867. N/M2) 630	72.4	70.9	72.1	72.9	74.7	76.7	77.9	78.4	78.5	78.6	75.4							110.3
TAMB 44. DEG F 800	74.1	72.6	73.6	73.2	75.9	77.2	78.8	79.1	79.7	79.3	75.6							111.2
(280. DEG K) 1000	71.4	70.8	71.1	73.9	76.6	77.9	79.8	81.1	81.7	81.3	74.4							112.3
TWET 39. DEG F 1250	76.2	75.4	78.4	80.7	82.7	85.2	86.6	87.9	87.7	87.4	79.1							118.7
(277. DEG K) 1600	76.4	75.9	78.4	80.8	83.2	85.2	86.6	87.1	86.5	85.6	78.1							118.2
HACT 4.62 GM/M3 2000	76.3	76.3	78.1	81.6	83.7	85.3	86.3	86.4	86.0	84.9	78.4							118.0
(.00482 KG/M3) 2500	77.7	78.0	79.6	82.6	85.3	87.3	89.1	90.1	92.2	91.4	82.6							121.8
NFA 5491. RPM 3150	76.4	76.2	78.9	81.4	84.5	87.3	88.8	89.6	90.2	89.7	81.1							120.8
(575. RAD/SEC) 4000	75.1	76.2	78.6	81.9	84.8	87.5	89.5	90.3	89.9	88.4	81.5							120.9
NFK 5572. RPM 5000	72.8	74.2	77.0	79.8	83.0	85.9	87.9	89.2	90.1	87.3	80.7							119.9
(583. RAD/SEC) 6300	72.2	73.0	75.7	78.5	81.6	84.4	87.2	88.5	88.9	86.0	80.3							119.0
NFD 8823. RPM 8000	69.8	71.7	73.3	77.2	79.6	83.3	86.0	86.7	87.8	85.5	78.9							117.8
(924. RAD/SEC) 10050	39.4	70.3	72.1	76.6	79.1	81.7	85.7	86.3	88.6	85.5	79.8							117.8
NO. OF BLADES 15 12500	68.6	68.5	70.9	75.1	77.8	80.4	83.4	85.8	87.6	84.4	78.1							116.8
FAN TIP SPEED 16000	65.9	65.7	67.3	73.5	74.5	77.3	80.7	83.9	85.1	81.5	75.8							114.7
479. FT/SEC 20000	65.5	65.4	66.6	72.8	73.1	77.0	79.9	82.5	85.1	81.0	75.0							114.5
25000	66.3	65.7	66.0	71.1	71.5	75.6	77.8	80.9	82.2	78.8	72.6							112.9
31500	64.9	63.9	64.6	68.9	70.5	74.8	77.0	80.1	81.5	78.4	70.7							113.1
40000	64.5	63.4	64.1	66.6	68.0	71.7	75.0	78.4	78.3	75.0	66.0							111.8
50000	67.0	64.6	66.1	66.8	66.7	69.5	71.7	72.3	73.7	71.5	63.9							110.1
63000	69.1	66.8	67.8	67.0	65.7	67.1	68.3	67.3	68.2	66.7	62.8							110.2
80000	72.6	70.9	70.2	67.2	67.7	68.5	68.5	67.6	66.3	67.0	65.0							115.8
OVERALL MEASURED																		
OVERALL CALCULATED	87.3	87.2	89.4	91.9	94.2	96.4	98.3	99.3	100.2	98.5	92.1							130.6
PNDB	99.8	100.0	102.0	104.6	107.2	109.5	111.4	112.1	112.9	111.9	104.9							

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	52.9	54.4	54.8	61.2	61.5	59.7	56.9	56.1	46.3	49.8	47.0						
VEHICLE R-58	125	43.3	44.6	46.5	46.9	51.0	47.3	46.1	47.8	47.7	46.2	44.4						
CONFIG 2J	160	42.9	43.7	44.4	45.8	46.9	46.3	46.5	47.2	47.3	47.3	44.1						
LOC SCHENECTADY	200	41.8	43.4	45.6	45.7	47.1	48.4	49.7	49.6	49.2	48.9	46.4						
DATE 12/11/74	250	44.7	46.3	48.2	48.4	49.7	50.1	50.8	50.5	49.3	48.7	44.7						
RUN 35/9	315	47.4	48.5	49.4	50.6	50.9	51.3	50.5	50.1	49.2	48.1	43.8						
TAPE	400	48.3	48.1	48.6	49.2	49.3	50.4	50.6	50.0	48.8	47.4	43.0						
BAR 29.8 IN HG	500	46.4	45.3	46.8	46.9	48.2	49.9	51.0	51.2	50.0	47.8	42.3						
(100867. N/M2)	630	47.8	47.4	49.4	50.6	52.4	54.3	54.9	54.5	53.1	50.8	43.9						
TAMB 44. DEG F	800	49.4	49.9	50.7	50.7	53.5	54.7	55.8	55.2	54.2	51.4	43.5						
(280. DEG K)	1000	46.6	47.1	48.1	51.3	54.2	55.3	56.7	57.0	56.0	53.2	41.9						
TWET 39. DEG F	1250	51.2	51.3	55.2	54.0	60.1	62.4	63.3	63.5	61.8	58.9	46.3						
(277. DEG K)	1600	51.2	51.8	55.0	57.9	60.4	62.3	63.1	62.6	60.4	56.9	44.8						
HACT 4.82 GM/M3	2000	51.5	52.1	54.6	58.5	60.8	62.1	62.6	61.7	59.6	56.8	44.6						
(.00482 KG/M3)	2500	52.0	53.5	55.9	59.3	62.1	63.9	65.2	65.2	65.6	62.0	48.4						
NFA 5491. RPM	3150	50.4	51.4	54.8	57.9	61.1	63.7	64.6	64.3	63.2	59.8	46.2						
(575. RAD/SEC)	4000	48.6	50.9	54.1	57.9	60.9	63.5	64.8	64.5	62.3	57.0	45.5						
NFK 5572. RPM	5000	48.0	48.6	52.3	55.4	58.9	61.7	63.0	63.2	62.2	56.3	44.1						
(583. RAD/SEC)	6300	44.4	46.6	50.3	53.6	56.8	59.2	61.5	61.6	60.0	53.9	41.8						
NFB 8823. RPM	8000	40.7	44.1	46.7	51.2	53.7	57.3	59.2	58.6	57.3	51.3	37.8						
(924. RAD/SEC)	10000	39.3	40.9	43.9	49.0	51.8	54.1	57.3	56.3	56.1	48.6	34.6						
NO. OF BLADES 15	12500	34.7	36.6	40.4	45.4	48.3	50.5	52.6	53.3	52.0	43.8	27.1						
FAN TIP SPEED	16000	27.8	29.7	33.0	40.2	41.4	43.8	46.0	47.0	44.5	34.2	15.6						
479. FT/SEC	20000	20.9	23.9	27.2	34.5	35.3	38.6	40.1	40.0	37.7	25.3	2.2						
	25000	13.0	16.5	19.5	28.8	28.9	30.3	30.7	30.2	25.3	10.9							
	31500		3.3	7.4	13.8	18.8	19.4	19.2	17.6	10.8								
	40000						1.3	1.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.6	62.7	65.7	68.5	70.8	72.5	73.3	73.3	72.1	68.2	57.8						
PNDB		73.8	75.2	77.9	81.0	83.6	85.8	86.9	86.6	85.9	82.1	70.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 HR. 8.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL (FT. / M) 17. FT.
VEHICLE 8-55
CONFIG 24
LOC MCMENEETADY
DATE 12/12/74
RUN 3771
TAPE
BAR 29.7 HG
(100335. N/M2)
TAMB 44. DEG F
(280. DEG K)
THET 40. DEG F
(278. DEG K)
RHOT 0.36 GM/M3
(.00034 KG/M3)
NFA 5463. RPM
(575. RAD/SEC)
NFK 5574. RPM
(584. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES IS
FAN TIP SPEED
480. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.74)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
50																		
63																		
80																		
100	74.8	75.9	79.9	81.9	82.4	81.2	79.4	72.9	69.7	74.6	76.6							113.0
125	68.0	67.9	71.4	87.9	72.9	67.0	88.4	69.9	72.0	72.6	74.9							104.8
160	66.8	66.4	86.1	66.4	87.1	66.9	88.4	70.2	71.7	74.1	75.1							103.8
200	65.5	65.6	66.9	87.2	88.9	69.9	70.6	72.1	73.5	75.8	76.8							105.5
250	68.8	68.6	69.9	89.9	70.9	71.6	72.6	72.8	73.2	75.1	74.8							106.1
315	70.0	70.4	70.1	70.7	71.4	71.4	71.6	72.1	72.7	74.3	74.1							105.9
400	68.3	68.6	88.4	88.7	89.1	70.4	70.6	71.1	72.0	73.8	74.1							104.8
500	87.1	87.4	86.9	87.7	88.8	69.9	71.9	73.2	73.5	74.6	73.4							105.2
630	89.1	89.1	89.9	70.9	72.7	74.4	76.1	76.7	76.2	77.1	74.4							108.4
800	73.1	71.4	73.1	71.9	74.1	75.2	76.8	75.9	77.0	77.6	74.9							109.2
1000	88.1	88.1	87.9	89.7	71.6	73.4	74.8	75.9	77.2	77.8	72.8							107.9
1250	88.4	87.2	70.1	73.5	73.7	74.7	76.6	79.9	80.0	82.4	76.9							111.3
1600	87.2	87.2	89.6	71.3	73.0	74.7	74.8	76.4	76.5	77.9	72.4							108.4
2000	88.4	85.9	87.1	88.8	71.0	72.2	73.3	73.9	75.0	74.1	69.4							105.9
2500	88.2	85.7	88.4	88.4	70.3	72.3	72.5	72.9	74.2	73.9	69.3							105.4
3150	84.7	85.0	85.8	88.4	70.3	72.5	73.8	75.8	77.2	76.8	70.8							107.2
4000	86.6	89.7	88.8	71.4	73.5	75.7	78.4	81.2	81.9	83.3	76.0							112.2
5000	84.8	87.6	87.0	89.6	72.5	75.9	78.8	80.7	81.1	80.5	73.4							111.1
6300	85.9	89.2	87.7	70.2	72.3	75.8	78.9	80.7	81.9	80.7	73.8							111.5
8000	85.8	70.9	87.5	71.2	71.5	75.5	78.2	80.2	82.2	81.2	73.6							111.6
10000	84.8	72.2	88.3	71.3	71.3	74.6	77.9	80.4	82.3	78.2	71.8							111.3
12500	88.8	74.2	86.6	73.8	71.7	75.8	78.8	79.8	82.3	78.1	72.2							111.6
16000	83.8	75.8	84.5	75.8	78.2	73.8	76.4	79.8	80.8	78.8	70.7							111.1
20000	84.1	75.5	85.2	74.9	71.3	75.1	77.3	79.9	81.5	77.4	70.7							112.0
25000	84.7	75.1	85.4	75.4	71.6	74.4	76.4	78.2	79.8	75.7	69.4							111.8
31500	84.7	78.7	85.1	72.8	71.8	75.3	78.6	78.4	79.3	75.7	87.4							112.0
40000	85.1	86.7	84.6	89.8	88.8	71.5	73.8	74.4	75.9	72.8	84.8							110.1
50000	87.7	85.8	86.2	87.8	88.8	88.8	78.4	78.3	71.1	88.9	83.8							108.8
63000	78.8	88.4	87.9	86.6	88.8	88.2	87.9	86.9	86.6	86.8	83.6							110.4
80000	73.3	87.8	78.8	87.8	88.2	89.1	89.1	88.1	86.8	87.5	86.8							118.8
OVERALL MEASURED																		
OVERALL CALCULATED	83.1	85.4	84.7	87.2	87.5	88.8	90.4	91.8	93.8	92.2	87.8							124.9
PNDB	92.2	94.1	93.9	96.8	97.7	99.7	101.8	103.6	104.4	105.1	99.5							

PAGE 7 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 HR. 8.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.1	53.2	57.6	60.2	60.8	59.4	56.2	49.8	45.3	48.0	48.5						
125	44.3	45.1	49.2	48.1	51.2	44.1	48.1	48.8	47.4	45.9	44.8						
160	42.9	43.5	43.9	44.8	45.4	45.8	48.0	48.9	47.1	47.3	44.8						
200	41.8	42.6	44.6	45.2	47.1	47.9	49.2	48.8	48.7	48.9	46.2						
250	44.7	45.5	47.5	47.9	49.0	49.8	50.1	49.2	48.3	48.0	44.0						
315	45.9	47.2	47.6	48.6	49.4	49.3	49.0	48.6	47.7	47.1	43.0						
400	44.0	45.4	45.8	46.8	47.1	48.2	47.9	47.5	46.9	46.4	42.8						
500	42.7	44.0	44.2	45.4	46.5	47.6	48.0	49.4	48.2	47.0	41.8						
630	44.6	45.7	47.1	48.8	50.4	52.0	53.2	52.8	50.9	49.3	42.5						
800	48.4	47.8	50.2	49.5	51.8	53.7	53.5	51.9	51.4	49.8	42.7						
1000	43.3	44.4	44.8	47.1	48.2	50.8	51.7	51.7	51.5	49.7	40.4						
1250	43.4	43.2	47.0	50.8	51.1	52.0	55.3	55.6	54.1	53.9	42.0						
1600	41.9	43.1	46.3	48.4	50.2	51.8	52.3	51.9	50.4	49.2	39.1						
2000	40.3	41.6	43.8	45.7	48.0	49.1	49.8	49.2	48.8	45.1	35.8						
2500	39.5	41.2	42.8	45.1	47.1	48.9	48.7	47.9	47.6	44.5	35.1						
3150	38.6	40.1	41.8	44.8	46.9	48.9	49.8	50.6	50.2	46.8	35.6						
4000	40.0	44.4	44.3	47.4	49.7	51.7	53.8	55.5	54.3	52.8	40.0						
5000	37.9	42.1	42.3	45.4	48.4	51.6	53.7	54.6	53.2	49.5	36.8						
6300	38.1	42.8	42.2	45.3	47.8	50.7	53.2	53.9	52.9	48.5	35.3						
8000	35.9	43.3	40.9	45.2	48.7	49.5	51.4	52.0	51.8	47.0	32.3						
10000	33.5	42.9	38.1	43.7	44.0	47.0	49.5	50.5	49.8	41.3	28.8						
12500	32.1	42.3	36.1	44.8	42.2	45.2	47.2	47.2	46.7	37.3	21.3						
16000	29.0	39.8	30.1	41.6	37.0	39.0	41.7	42.9	40.1	30.4	10.3						
20000	19.5	34.0	25.8	36.7	33.4	36.8	37.5	37.3	34.1	21.8							
25000	12.4	25.9	18.8	30.3	27.8	29.2	29.3	27.8	23.0	7.8							
31500		10.1	8.0	16.8	17.3	19.9	18.8	15.9	8.5								
40000						1.1	0.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.1	58.8	61.3	63.2	64.4	64.7	65.1	64.9	63.9	62.0	55.1						
PNDB	65.8	66.8	69.5	72.1	74.0	75.8	77.3	78.0	77.0	74.8	64.2						

OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
	50																		
	63																		
RADIAL 19. FT.	80																		
(9. IN)	100	78.0	78.4	74.6	71.9	71.1	70.2	72.1	71.9	73.0	77.1	79.9							108.6
VEHICLE 8-55	125	70.3	69.6	72.6	70.4	74.1	79.4	71.6	72.9	75.0	76.6	79.4							107.7
CONFIG 24	160	69.3	68.6	68.9	69.4	70.1	69.0	72.1	73.4	75.5	78.1	79.6							107.5
LOC SCHENECTADY	200	69.0	68.1	69.1	69.4	71.1	73.1	73.9	75.6	77.0	79.8	81.1							109.0
DATE 12/12/74	250	72.3	71.6	73.1	73.1	73.9	74.4	75.6	75.9	77.0	78.3	79.8							109.5
RUN 37/2	315	73.3	73.1	73.9	74.2	74.9	75.2	75.3	75.6	76.2	78.3	79.3							109.7
TAPE	400	71.6	71.4	71.4	71.7	72.1	73.2	73.6	75.1	75.7	77.8	78.1							108.3
BAR 29.7 HG	500	69.8	69.4	69.4	70.4	71.6	73.2	74.9	75.9	76.7	78.1	77.4							108.3
(00335. N/M2)	630	71.9	71.1	72.4	73.4	74.9	76.9	78.9	79.4	79.2	79.8	77.9							111.1
TAMB 44. DEG F	800	74.9	73.4	74.1	74.4	74.4	77.7	78.3	79.1	79.2	79.3	77.6							111.4
(280. DEG K)	1000	78.1	76.4	76.4	72.2	74.1	75.7	77.6	78.9	80.0	79.8	75.8							110.4
TMET 40. DEG F	1250	68.9	67.9	69.8	71.7	73.4	75.0	77.6	78.4	79.5	80.4	75.8							110.2
(278. DEG K)	1600	73.2	73.4	74.1	77.0	78.7	81.5	82.6	82.6	82.0	82.9	77.6							114.4
MACT 5.36 GM/M3	2000	68.9	69.4	70.6	72.8	74.5	75.7	76.3	78.1	79.0	77.1	73.4							109.8
(.00536. KG/M3)	2500	67.4	68.0	68.6	70.9	73.0	74.0	73.8	74.4	74.5	73.1	71.3							106.7
NFA 6275. RPM	3150	68.2	68.2	69.8	72.1	74.8	76.5	77.8	80.1	82.2	80.6	74.8							111.5
(657. RAD/SEC)	4000	68.9	70.2	71.5	74.1	76.2	78.5	81.2	83.5	84.7	81.6	76.5							113.9
NFM 4394. RPM	5000	68.3	69.9	70.7	73.6	76.5	79.4	82.9	85.2	84.9	82.3	77.2							114.9
(667. RAD/SEC)	6300	68.9	70.5	70.9	74.0	76.8	79.4	82.4	84.5	86.6	82.7	76.8							115.2
NFD 8823. RPM	8000	68.0	71.1	70.5	74.2	76.8	79.5	82.9	84.7	86.5	83.2	76.8							115.5
(924. RAD/SEC)	10000	66.6	73.5	69.3	73.8	76.3	78.8	81.7	83.9	85.6	80.7	74.8							114.6
NO. OF BLADES 18	12500	67.5	75.4	69.4	74.3	76.0	78.3	81.8	84.0	85.3	80.8	75.0							114.8
FAN TIP SPEED	16000	69.1	74.6	68.7	74.5	75.9	77.9	79.9	83.3	84.3	78.6	73.7							114.0
548. FT/SEC	20000	69.8	76.0	67.7	76.1	75.3	77.9	80.5	83.9	85.5	79.4	73.9							115.3
	25000	68.9	77.1	67.9	74.9	74.9	77.9	80.4	83.0	83.5	78.4	72.7							115.0
	31500	69.9	75.2	68.3	75.5	74.3	79.0	80.8	82.6	83.0	77.7	70.9							115.0
	40000	69.3	71.5	66.1	71.1	72.8	75.5	77.6	79.9	80.1	75.6	66.3							113.9
	50000	67.4	69.5	66.5	67.5	69.6	71.7	73.6	74.0	74.6	71.9	64.0							111.6
	63000	69.7	69.2	67.9	67.1	67.0	68.9	69.4	68.6	68.6	67.0	64.1							111.3
	80000	73.3	68.1	70.8	67.8	68.2	69.1	69.1	68.1	66.8	67.5	66.0							110.8
OVERALL MEASURED																			
OVERALL CALCULATED		85.2	87.1	85.6	87.9	88.3	91.4	93.6	95.5	96.5	94.1	91.4							127.5
	PNDB	94.9	95.7	96.5	98.6	100.6	102.6	105.0	106.8	107.6	105.8	102.0							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE 8-55
CONFIG 24
LOC SCHENECTADY
DATE 12/12/74
RUN 3772
TAPE
BAR 29.7 HG (100335. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 40. DEG F (278. DEG K)
MACT 5.36 GM/M3 (.00534 KG/M3)
NPA 6275. RPM (657. RAD/SEC)
NFK 6344. RPM (664. RAD/SEC)
NFD 8623. RPM (902. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 948. FT/SEC

FREQ.	53. (0.92)	63. (1.08)	73. (1.24)	83. (1.41)	93. (1.58)	103. (1.74)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	52.4	53.7	52.6	50.2	49.5	49.4	49.8	48.8	48.5	50.5	49.8						
125	46.5	46.8	50.5	48.6	52.5	48.8	49.3	49.8	50.4	49.9	49.1						
160	49.4	45.7	48.7	47.8	48.4	48.0	49.7	50.2	50.8	51.3	49.1						
200	45.1	45.1	48.8	47.5	49.3	51.2	51.4	52.3	52.2	52.9	50.4						
250	48.2	48.5	50.7	51.1	52.0	52.6	53.1	52.5	52.1	51.2	49.0						
315	49.1	50.0	51.4	52.1	52.9	53.0	52.7	52.1	51.2	51.1	48.3						
400	47.3	48.1	48.4	49.5	50.1	50.9	50.9	51.5	50.6	50.4	46.8						
500	45.4	46.0	46.7	48.2	49.5	50.9	52.0	52.2	51.5	50.5	45.8						
630	47.3	47.7	49.6	51.1	52.7	54.5	55.9	55.5	53.9	52.1	46.0						
800	50.2	49.8	51.2	52.0	54.0	55.2	55.3	55.2	53.7	51.4	45.5						
1000	49.3	46.8	47.3	49.6	51.7	53.0	54.4	54.7	54.3	51.4	43.4						
1250	43.9	44.0	46.5	49.0	50.8	52.2	54.3	54.1	53.6	51.9	42.8						
1600	47.9	49.3	50.8	54.1	56.2	56.5	56.1	56.1	55.9	54.2	44.3						
2000	43.5	45.1	47.1	49.7	51.5	52.6	52.8	53.4	52.6	48.1	39.6						
2500	41.7	43.4	44.9	47.6	48.9	50.7	49.9	49.4	47.9	43.8	37.1						
3150	42.1	43.4	45.8	48.6	51.4	52.9	53.8	54.8	55.2	50.8	39.9						
4000	42.3	44.9	47.1	50.1	52.4	54.4	56.6	57.7	57.1	51.0	40.5						
5000	41.4	44.3	46.0	49.4	52.4	55.1	56.0	59.1	56.9	51.3	40.6						
6300	41.1	44.1	45.5	49.0	51.1	54.4	56.7	57.6	57.7	50.5	38.3						
8000	38.9	43.5	43.9	48.2	49.9	53.5	56.1	56.5	56.0	49.0	35.6						
10000	39.5	44.1	41.1	46.2	48.0	51.0	53.3	54.0	53.0	43.8	29.8						
12500	33.6	43.8	38.8	44.5	46.4	48.4	51.0	51.4	49.7	40.0	24.0						
16000	26.5	38.6	32.4	41.1	44.8	43.9	45.2	46.4	43.6	31.4	13.3						
20000	21.2	34.5	28.3	37.9	37.4	39.5	40.7	41.3	38.1	23.8	1.1						
25000	13.6	27.9	21.3	29.8	30.2	32.7	33.3	32.3	26.7	10.6							
31500		14.8	11.2	20.3	21.8	23.7	22.8	20.1	12.3								
40000				1.0	3.5	5.1	3.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.6	60.7	61.8	63.2	65.1	66.4	67.8	68.1	67.2	64.1	59.0						
PNDB	68.7	70.6	72.2	74.0	74.9	76.7	80.4	81.1	80.2	75.6	66.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 8.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0.)10.	0.)10.	0.)10.	0.)10.	0.)10.	0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. M)	100	68.0	70.9	71.4	70.4	71.1	71.2	71.8	72.2	76.0	80.6	83.4								109.3
VEHICLE R-55	125	75.3	77.6	78.1	75.9	74.6	74.4	74.9	77.2	78.2	80.8	83.6								112.0
CONFIG 24	160	72.5	72.1	71.9	72.4	73.9	73.9	75.4	77.2	78.7	81.8	83.6								111.0
LOC SCHENECTADY	200	71.5	70.4	70.9	72.4	74.6	76.4	77.4	79.1	80.2	83.3	85.1								112.5
DATE 12/12/74	250	75.5	74.4	76.1	76.4	77.1	77.8	79.1	79.4	80.5	82.8	83.8								113.1
RUN 37/3	315	76.8	76.4	76.9	77.4	77.6	78.2	78.6	78.9	80.0	82.1	83.3								113.1
TAPE	400	75.1	74.1	74.6	74.7	75.6	76.2	77.4	78.4	79.2	81.6	82.3								111.8
BAR 29.7 HG	500	72.6	72.4	72.4	73.9	74.9	76.7	77.4	79.2	79.7	81.6	81.1								111.5
(00335. N/M2)	630	74.4	73.9	74.9	75.9	77.9	79.4	81.1	82.2	82.2	82.8	81.6								113.9
TAMB 44. DPG F	800	76.6	75.9	76.1	77.2	78.4	79.7	81.1	81.6	81.7	82.3	80.9								113.9
(280. DPG K)	1000	73.1	73.4	73.4	75.2	76.6	78.7	79.6	81.1	82.5	81.8	79.3								113.0
TWET 40. DPG F	1250	79.2	78.9	78.1	74.7	74.2	77.7	79.3	80.6	82.0	82.4	79.1								112.6
(277. DPG K)	1600	75.9	73.9	76.9	78.5	80.2	81.7	81.8	82.6	84.7	83.9	79.1								115.2
MACT 5.36 GM/M3	2000	74.7	73.4	75.6	78.1	79.5	80.7	81.3	83.1	85.0	82.6	77.6								114.8
(.00536 KG/M3)	2500	70.7	71.2	72.4	74.6	76.0	77.8	76.8	77.1	77.5	76.4	74.8								109.8
NFA 7058. RPM	3150	70.9	71.2	72.6	74.6	77.3	79.7	80.5	82.8	84.5	80.9	76.6								113.8
(739. RAD/SEC)	4000	72.6	73.4	75.3	78.1	80.7	82.7	84.9	87.0	88.7	84.6	79.7								117.7
NFK 7162. RPM	5000	71.3	71.6	74.2	76.8	79.2	82.7	86.4	86.9	87.4	84.5	78.7								117.4
(750. RAD/SEC)	6300	71.1	72.2	73.9	77.0	79.1	82.1	85.1	87.2	89.9	85.2	79.0								116.1
NFD 6823. RPM	8000	71.3	72.6	74.7	77.7	79.5	82.8	85.9	88.5	90.2	85.7	79.6								116.9
(924. RAD/SEC)	10000	69.6	70.7	73.3	77.0	79.3	81.6	85.2	87.7	89.3	83.2	77.5								116.1
NO. OF BLADES 15	12500	70.0	70.4	72.9	76.3	79.2	81.5	84.8	86.6	88.8	83.1	77.5								117.7
FAN TIP SPEED	16000	67.8	68.4	71.0	74.7	77.4	80.5	83.6	86.3	87.3	81.9	76.7								116.9
816. FT/SEC	20000	67.8	68.2	71.5	76.6	78.8	81.4	84.3	86.9	88.2	81.9	76.7								116.1
	25000	68.2	68.3	71.6	77.0	78.9	80.9	83.7	86.2	87.5	81.7	75.9								116.3
	31500	66.9	68.4	72.3	76.7	80.1	82.8	84.3	85.6	86.9	80.9	73.9								119.1
	40000	65.8	66.0	69.8	75.3	78.8	79.9	81.1	82.9	83.1	78.8	68.5								117.3
	50000	67.2	65.3	68.2	72.5	79.6	74.9	77.4	77.3	78.1	74.9	64.8								114.8
	63000	69.0	64.9	67.9	72.4	67.5	69.7	71.1	71.4	71.6	69.0	63.6								112.8
	80000	73.3	67.8	70.8	69.8	68.2	69.1	69.1	68.1	67.3	67.5	66.0								116.2
OVERALL MEASURED																				
OVERALL CALCULATED		87.4	87.2	88.4	90.8	92.3	94.4	96.6	98.4	99.9	96.9	94.8								130.4
PNDB		98.1	98.3	99.9	102.1	104.1	106.0	108.1	109.7	111.2	108.8	106.2								

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OF POOR QUALITY

PAGE 3 FULL SCALE DATA PRODUCTION PROGRAM PROD. DATE = MONTH 12 DAY 18 HR. 8.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.4	48.2	49.3	48.7	49.5	49.6	49.4	49.1	51.5	54.0	53.3						
VEHICLE R-55	125	51.5	54.8	56.0	54.1	55.0	52.8	52.8	54.0	53.7	54.2	53.4						
CONFIG 24	160	48.7	49.2	49.7	50.6	51.1	51.3	53.0	53.9	54.1	55.0	53.1						
LOC SCHENECTADY	200	47.6	47.4	48.6	50.5	52.8	54.4	54.9	55.8	55.5	56.4	54.4						
DATE 12/12/74	250	51.5	51.3	53.7	54.4	55.2	55.4	56.4	56.0	55.6	55.5	53.0						
RUN 37/3	315	52.6	53.2	54.4	55.3	55.7	56.0	56.0	55.4	55.0	54.8	52.3						
TAPE	400	50.8	50.9	52.1	52.5	53.0	53.9	54.6	54.8	54.1	54.2	51.0						
BAR 29.7 HG	500	48.2	49.0	49.7	51.7	52.7	54.4	54.5	55.4	54.5	54.0	49.5						
(100335. N/M2)	630	49.8	50.4	52.1	53.6	55.7	57.0	58.2	58.3	56.9	55.1	49.8						
TAMB 44. DEG F	800	51.9	52.3	53.2	54.7	56.0	57.2	58.0	57.7	56.2	54.4	48.7						
(280. DEG K)	1000	48.3	49.8	50.3	52.6	54.2	56.0	56.4	57.0	56.8	53.7	46.9						
THET 40. DEG F	1250	47.2	47.9	49.0	52.0	53.6	54.9	56.0	56.3	56.1	53.9	46.3						
(278. DEG K)	1600	50.7	49.8	53.5	55.6	57.4	58.8	58.3	58.1	58.6	55.2	45.8						
MACT 5.36 GM/M3	2000	49.2	49.1	52.1	55.0	56.5	57.4	57.6	58.4	58.6	53.6	43.9						
(.00536 KG/M3)	2500	45.0	46.7	48.6	51.3	52.9	53.7	52.9	52.2	50.9	47.0	40.6						
NFA 70RA. RPM	3150	44.9	46.4	48.6	51.1	52.9	56.1	56.3	57.6	57.5	51.0	41.6						
(739. RAD/SEC)	4000	46.0	46.1	50.8	54.1	56.9	58.7	60.3	61.2	61.1	54.0	43.8						
NFK 7142. RPM	5000	44.4	46.1	49.5	52.6	55.1	56.4	61.5	60.9	59.4	53.5	42.1						
(750. RAD/SEC)	6300	43.4	45.8	48.5	52.0	54.3	57.2	59.5	60.4	60.9	53.0	40.6						
NFD 8893. RPM	8000	42.1	45.0	48.1	51.7	53.7	56.7	59.1	60.3	59.8	51.5	38.3						
(924. RAD/SEC)	10000	38.5	41.4	45.1	49.5	52.0	54.0	56.8	57.7	56.8	46.3	32.3						
NO. OF BLADES 15	12500	38.1	38.6	42.3	46.5	49.7	51.7	54.0	54.2	53.2	42.3	26.5						
FAN TIP SPEED	16000	29.0	32.4	36.6	41.3	44.3	46.9	48.9	49.4	46.6	34.6	16.3						
616. FT/SEC	20000	23.2	26.8	32.1	36.4	40.9	43.8	44.5	44.3	40.9	26.1	3.9						
	25000	14.9	19.1	25.1	32.8	36.2	35.7	38.6	35.6	30.7	13.8							
	31500	0.0	7.8	15.2	23.5	29.5	27.4	20.5	23.1	15.8								
	40000				5.2	7.5	8.8	7.3	2.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.9	62.8	64.6	66.2	67.8	69.3	70.5	70.9	70.8	67.1	62.8						
	PNDB	71.9	73.3	75.7	78.3	80.5	82.2	83.5	84.1	83.8	78.8	70.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.5	71.1	72.6	72.9	73.4	74.2	74.1	75.2	79.0	84.1	87.6							112.7
VEHICLE R=55	125	76.8	76.4	76.1	75.7	75.9	77.4	75.4	79.9	81.0	83.8	86.4							114.0
CONFIG 24	160	75.0	75.1	75.1	75.7	75.9	75.9	75.1	79.9	82.0	84.8	87.1							114.1
LOC SCHENECTADY	200	74.5	73.4	74.4	75.7	77.6	79.8	80.4	82.1	83.5	86.6	88.3							115.7
DATE 12/12/74	250	79.9	79.4	81.1	81.9	82.9	83.9	84.6	86.1	86.2	88.6	88.6							118.7
RUN 3714	315	79.8	79.4	79.6	79.9	81.1	81.2	81.3	82.1	83.5	86.1	86.8							116.4
TAPE	400	77.8	77.6	77.4	78.2	78.6	79.7	79.9	81.4	82.5	85.3	85.8							115.1
BAR 29.7 MG	500	75.8	75.4	75.9	76.7	77.9	79.4	81.1	82.2	83.5	86.3	86.9							114.8
(100335. N/M2)	630	76.9	76.4	77.6	78.7	80.9	82.4	84.1	84.4	84.5	85.3	84.8							116.5
TAMB 44. DEG F	800	79.1	78.1	79.1	79.4	81.4	82.4	83.8	84.1	84.7	84.8	84.1							116.8
(280. DEG K)	1000	78.6	78.1	78.4	77.7	79.8	80.7	82.8	83.4	84.5	83.6	82.8							115.4
TWET 40. DEG F	1250	75.4	74.2	75.4	77.7	79.2	80.2	82.3	83.4	84.5	83.9	82.1							115.2
(278. DEG K)	1600	75.4	75.2	76.9	78.8	80.7	82.0	82.1	82.6	84.0	82.6	80.9							115.2
HACT 5.35 GM/M3	2000	76.7	77.2	78.6	80.3	82.0	84.2	85.6	87.1	88.2	83.1	81.6							118.1
(.00538 KG/M3)	2500	73.7	74.2	75.1	77.9	79.3	80.3	80.0	80.6	80.5	79.4	78.6							113.0
NFA 7823. RPM	3150	73.4	73.5	74.8	76.9	79.0	81.0	81.3	82.8	83.5	80.9	77.6							114.2
(819. RAD/SEC)	4000	74.9	76.9	78.8	82.1	84.2	86.0	89.7	90.2	92.7	88.6	83.7							121.4
NFK 7930. RPM	5000	73.8	74.4	76.2	79.3	82.2	84.9	87.9	89.4	89.9	86.0	80.9							119.8
(831. RAD/SEC)	6300	74.1	75.2	77.2	79.7	82.6	86.6	88.9	91.2	92.6	86.7	81.0							121.4
NFB 8823. RPM	8000	74.0	75.4	77.2	80.4	82.8	86.0	88.7	91.5	93.5	87.4	81.8							122.8
(924. RAD/SEC)	10000	73.6	73.7	76.5	80.5	83.1	85.4	88.4	90.9	91.8	85.0	79.8							121.0
NO. OF BLADES 15	12500	72.8	73.4	76.4	80.1	83.0	85.0	89.5	91.3	91.5	85.1	80.2							121.4
FAN TIP SPEED	16000	70.6	71.4	74.5	77.7	80.9	83.7	86.6	90.1	89.8	83.8	79.2							120.0
683. FT/SEC	20000	70.3	72.0	75.0	78.6	82.0	84.9	87.8	91.2	91.2	84.8	79.2							121.6
	25000	70.9	72.1	75.6	79.9	82.4	84.9	87.9	90.7	91.5	84.9	79.7							122.3
	31500	69.4	71.9	76.1	81.2	83.1	85.5	87.6	89.6	89.8	83.9	77.2							122.4
	40000	68.1	69.2	73.1	79.1	79.6	82.7	84.8	86.7	86.4	81.3	71.3							120.8
	50000	67.9	68.5	70.5	77.3	75.6	78.4	81.1	80.8	81.4	77.2	67.0							116.2
	63000	68.2	69.9	68.4	74.6	69.8	72.2	74.4	74.1	74.6	71.0	64.1							115.2
	80000	73.3	68.8	70.8	69.5	68.5	69.1	69.3	68.6	68.8	67.5	66.0							116.5
OVERALL MEASURED																			
OVERALL CALCULATED		90.0	89.8	91.3	93.6	98.5	97.6	99.9	101.9	102.8	99.4	98.2							133.5
	PNDB	101.3	101.4	102.8	105.3	107.3	109.1	111.1	112.7	114.3	111.4	108.5							

 FULL SCALE DATA PRODUCTION PROGRAM PROG. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	63. (1.09)	73. (1.24)	83. (1.41)	93. (1.58)	103. (1.74)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
PREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.9	48.4	50.8	50.9	51.8	52.4	51.9	52.1	54.5	57.5	57.5						
VEHICLE 8-55	125	53.0	53.6	54.0	53.9	57.2	55.8	56.1	56.8	56.4	57.2	56.1						
CONFIG 24	160	51.2	52.2	52.9	53.8	54.1	54.0	55.7	56.7	57.3	58.0	56.8						
LOC SCHENECTADY	200	50.6	50.4	52.1	53.7	55.8	57.7	57.9	58.8	58.7	59.8	57.7						
DATE 12/12/74	250	55.7	56.3	58.7	59.9	61.0	61.4	62.1	62.7	61.3	61.5	57.7						
RUN 37/4	315	55.6	56.2	57.1	57.8	58.2	59.0	58.7	58.8	58.5	58.8	55.8						
TAPE	400	53.5	54.4	54.8	56.5	54.6	57.4	57.1	57.8	57.4	57.9	54.5						
BAR 28.7 HG	500	51.4	52.0	53.2	54.4	54.7	57.1	58.3	58.4	58.2	56.8	53.3						
(97335. N/M2)	630	52.3	52.9	54.9	56.3	58.7	60.0	61.2	60.5	59.1	57.6	52.8						
TAMB 44. DEG F	800	54.4	54.5	56.2	57.0	58.0	59.8	60.5	60.2	59.2	56.9	52.0						
(280. DEG K)	1000	51.8	52.4	53.3	55.1	57.2	58.0	59.4	59.2	58.8	55.4	52.4						
TWET 42. DEG F	1250	50.4	50.2	52.2	53.0	54.6	57.4	58.0	58.1	58.6	55.4	49.3						
(279. DEG K)	1600	50.2	51.1	53.5	55.0	57.0	59.0	58.6	58.1	57.9	53.0	47.6						
MACT 4.96 GM/M3	2000	51.2	52.9	55.1	57.2	58.0	61.1	61.9	62.4	61.9	54.1	47.9						
(.00538 SS/M3)	2500	48.8	49.7	51.4	54.6	56.1	58.0	59.2	59.7	53.9	50.0	44.4						
NFA 7933. RPM	3150	47.4	48.6	50.8	53.3	55.9	57.4	57.1	57.8	56.5	51.0	42.6						
(830. RAD/SEC)	4000	50.3	51.8	54.3	56.1	58.4	61.0	64.1	64.5	65.1	58.8	47.8						
NFA 7930. RPM	5000	48.9	48.8	51.5	55.1	58.1	60.6	63.8	63.4	61.9	55.0	44.3						
(831. RAD/SEC)	6300	48.4	48.8	51.7	54.8	57.8	61.7	63.2	64.4	63.7	54.5	42.6						
NFD 8823. RPM	8000	46.9	47.6	50.8	54.4	56.9	60.0	61.9	63.3	63.0	53.2	40.6						
(924. RAD/SEC)	10000	41.5	44.4	48.3	53.0	54.7	57.8	60.0	61.0	59.3	48.1	34.6						
NO. OF BLADES 18	12500	38.9	41.6	45.8	50.3	53.4	55.9	58.7	58.7	55.9	44.3	29.3						
FAN TIP SPEED	16000	32.8	35.4	40.1	44.3	47.8	50.9	51.9	53.2	49.1	36.4	18.8						
883. FT/SEC	20000	25.7	30.5	35.6	40.4	44.1	46.5	48.0	48.6	43.9	28.9	6.4						
	25000	17.6	22.9	29.1	34.8	37.7	39.7	40.8	40.1	34.7	17.1							
	31500	3.4	11.3	19.0	26.0	28.5	30.9	29.8	27.1	19.0								
	40000			0.3	9.0	18.3	12.3	11.1	6.5									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.6	65.4	67.2	69.0	71.0	72.4	73.5	74.0	73.4	70.0	66.3						
	PWL	79.1	78.3	78.8	81.5	83.7	85.2	86.7	87.1	86.9	81.4	73.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SOUND PRESSURE LEVELS (80. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.74)	111. (1.94)	121. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 10.	0. 10.	0. 10.	0. 10.	0. 10.	0. 10.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
S. PT	100	72.5	72.6	73.6	73.1	74.9	75.6	75.1	75.6	79.1	83.7	87.8							113.0
VEHICLE 0-55	125	77.3	76.3	74.4	75.4	78.4	78.1	78.1	80.6	81.6	83.5	86.8							114.3
CONFIG 24	160	75.8	75.8	74.8	76.1	78.4	78.8	78.0	80.1	82.1	84.7	87.1							114.3
LOC SCHENECTADY	200	76.5	74.6	74.8	75.9	78.1	78.8	80.3	82.1	83.6	86.4	88.8							115.8
DATE 12/13/74	250	80.7	79.3	81.3	81.8	83.1	84.1	84.8	86.1	86.4	87.9	89.0							118.8
RUN 37/5	315	80.0	79.1	79.8	80.4	80.6	81.4	81.8	82.1	83.4	84.9	86.8							116.2
TAPE	400	78.3	78.1	77.8	78.4	78.9	79.8	80.3	81.6	82.6	84.2	85.8							115.8
BAR 28.7 PC	500	78.8	78.1	78.8	77.1	78.1	79.6	81.1	82.1	82.9	84.0	84.8							114.7
(80335. N/M2)	630	77.8	77.3	78.4	79.1	80.9	82.2	83.8	84.4	84.6	84.7	84.8							116.9
TAMB 46. DEG F	800	82.8	79.8	81.8	80.6	82.6	83.2	84.8	85.1	85.1	84.7	85.1							117.6
(280. DEG K)	1000	77.9	77.3	77.6	78.1	80.1	81.2	82.6	83.3	84.6	83.7	83.1							115.7
THET 49. DEG F	1250	79.9	74.8	79.8	77.7	79.2	80.9	82.6	83.1	84.4	83.5	82.3							115.2
(278. DEG K)	1600	75.6	75.9	77.8	78.7	80.2	81.7	82.6	83.1	83.9	82.3	81.1							115.2
MACT 5.36 GM/M3	2000	77.1	76.6	78.8	80.8	83.2	84.5	85.3	87.6	88.4	83.8	81.8							118.3
(.00930 SLG/M3)	2500	74.1	74.4	75.9	77.4	79.2	80.8	80.8	80.6	80.4	79.3	78.8							113.8
APA 2822. DPM	3150	73.6	73.4	76.0	77.1	79.5	80.7	81.5	83.0	83.9	80.3	78.8							114.3
(419. RAD/SEC)	4000	76.8	77.1	79.8	82.1	84.8	85.7	86.4	88.5	92.8	88.2	83.2							121.5
WPA 7936. DPM	5000	74.5	74.6	76.7	79.3	82.2	83.4	84.8	89.4	89.8	85.7	80.8							118.8
(831. RAD/SEC)	6300	74.8	75.4	77.6	79.8	83.1	84.1	84.8	90.9	93.8	88.1	81.5							121.4
WPS 8423. DPM	8000	74.3	75.3	77.4	80.1	82.7	84.8	85.2	91.7	93.4	88.8	81.8							121.9
(924. RAD/SEC)	10000	74.5	74.4	76.7	80.5	82.3	85.8	86.4	90.9	91.5	84.8	80.8							120.9
NO. OF BLADES 15	12500	75.5	75.1	77.3	80.9	83.2	85.5	86.8	91.8	90.8	84.2	80.4							121.1
FAN TIP SPEED	16000	73.8	72.8	75.2	78.2	81.2	83.8	86.8	90.8	90.8	83.3	79.4							120.1
883. FT/SEC	20000	73.8	73.9	76.2	79.3	82.3	85.1	87.8	90.9	90.9	83.8	79.4							121.4
	25000	74.1	74.5	76.8	79.8	82.8	84.9	87.9	91.2	91.5	84.5	80.1							122.5
	31500	74.2	74.9	77.3	79.7	83.1	85.7	87.8	89.8	90.2	83.3	77.1							122.6
	40000	73.8	73.6	75.6	77.3	80.3	83.8	85.3	86.4	86.5	80.4	72.7							120.9
	50000	74.4	73.4	75.9	78.8	77.6	79.4	81.9	82.8	81.8	77.5	71.7							119.3
	63000	74.5	73.8	77.4	75.8	75.5	77.4	78.4	78.6	78.7	74.9	72.6							118.8
	80000	83.2	77.7	80.8	77.7	74.2	76.8	78.8	78.1	76.8	76.8	76.8							120.8
OVERALL MEASURED																			
OVERALL CALCULATED		82.1	80.8	82.4	83.7	84.8	87.8	188.1	182.8	182.8	88.8	88.4							134.3
	PWOB	101.8	101.7	103.2	103.4	107.3	108.8	111.8	112.8	114.4	111.8	108.8							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 10 HR. 8.0

PANEL RAKING PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PSIG.	53. (0.92)	63. (1.08)	73. (1.24)	83. (1.41)	93. (1.59)	103. (1.76)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0. (0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.	0.)(0.
	50																	
	67																	
SIDELINE 2000. FT.	83																	
(609.60 M)	100	48.8	49.8	51.5	51.4	53.3	53.4	52.0	52.6	54.7	57.2	57.8						
VEHICLE BOSS	125	53.5	53.5	53.2	53.8	54.7	54.3	54.8	57.5	57.1	56.8	56.8						
CONFIG 24	150	51.0	52.9	53.4	54.3	54.6	54.7	54.2	54.9	57.5	57.9	56.8						
LOC RCWENECTADY	200	52.5	51.6	52.5	53.8	54.3	57.4	57.9	58.2	58.9	59.5	58.1						
DATE 12/12/74	250	54.7	56.2	58.8	59.8	61.2	62.8	62.1	62.7	61.5	60.8	58.2						
RUN 37/S	315	55.1	55.9	57.3	58.3	58.6	59.2	59.2	58.6	58.4	57.7	55.7						
TAPE	400	54.8	54.8	55.8	56.4	56.9	57.4	57.6	58.0	57.5	56.8	54.5						
BAR 28.7 HG	500	52.2	52.7	53.8	54.8	54.8	57.3	54.3	58.4	57.7	56.4	53.2						
(80335. N/M2)	630	53.3	53.8	55.8	56.8	58.7	58.7	60.9	60.5	59.3	57.8	52.7						
TAPD 44. DFG F	800	58.2	58.2	58.7	58.2	60.3	60.4	61.8	61.1	59.6	58.7	52.9						
(280. DFG C)	1000	57.8	53.8	54.8	55.5	57.7	58.5	60.4	59.2	58.9	55.5	50.8						
TWET 48. DFG F	1250	58.9	58.9	52.7	55.8	56.8	58.1	59.3	58.8	58.5	55.1	49.5						
(278. DFG C)	1600	58.4	51.8	54.2	55.8	57.4	58.7	59.1	58.8	57.8	53.5	47.8						
MACT 5.36 GM/M3	2000	51.7	52.3	53.3	57.7	58.3	61.3	61.6	62.9	62.8	54.8	48.1						
(.00538 KG/M3)	2500	48.5	49.9	52.1	54.3	54.1	56.8	58.2	55.8	53.8	49.9	44.8						
WFA 7855. RPM	3150	47.8	48.6	51.8	53.5	54.1	57.1	57.3	57.8	56.9	48.4	43.1						
(810. RAD/SEC)	4000	50.3	51.8	54.5	48.1	48.2	61.4	64.8	64.7	65.2	57.8	47.2						
WFR 7938. RPM	5000	47.7	49.8	52.8	55.1	58.1	61.1	63.7	63.3	61.9	54.7	44.3						
(831. RAD/SEC)	6300	47.1	49.8	52.2	55.8	58.3	61.1	63.2	64.1	64.1	53.8	43.8						
WFD 8823. RPM	8000	45.3	47.7	50.8	54.1	58.9	59.9	62.4	63.5	63.8	52.8	40.5						
(924. RAD/SEC)	10000	43.5	45.1	48.5	52.8	56.8	58.8	60.8	60.9	59.8	47.7	34.8						
NO. OF BLADES 16	12500	41.6	43.2	46.8	50.7	53.7	55.4	58.2	58.4	55.3	43.9	29.5						
FAN TIP SPEED	16000	34.3	36.8	40.8	45.8	48.8	50.4	52.2	53.1	49.3	38.8	19.8						
883. FT/SEC	20000	20.2	32.5	36.8	41.1	44.4	46.7	48.8	48.3	43.5	28.8	8.8						
	25000	21.8	25.3	30.3	34.8	38.8	38.9	40.8	40.5	34.6	16.7							
	31500	8.1	14.2	20.2	24.5	28.5	30.4	30.8	27.1	18.5								
	40000			2.8	7.2	11.8	12.4	11.6	8.2									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED	69.8	69.8	67.8	69.3	71.2	72.5	73.8	74.1	73.5	68.8	64.6							
	PWOD	78.7	78.7	78.1	81.6	83.7	85.9	87.1	87.2	87.8	81.8	73.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 18 HR. 0.0

MODEL SYMM PRESSURE LEVELS (90. DEG. P. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53.	63.	73.	81.	91.	101.	111.	123.	133.	143.	153.	0.	0.	0.	0.	0.	0.	0.	PHL
	PROB.	(0.92)	(1.08)	(1.24)	(1.41)	(1.58)	(1.74)	(1.91)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	)(0.	)(0.	)(0.	)(0.	)(0.	)	
	50																			
	63																			
RADIAL IP. PT.	80																			
(9. PI	100	74.0	70.9	80.9	42.9	83.1	81.0	79.1	73.2	78.5	79.3	78.9								113.9
VEHICLE 0-35	125	67.0	67.4	71.8	68.7	74.1	64.9	68.9	70.2	72.8	72.8	73.4								109.5
CONFIG 24	150	65.8	65.8	66.1	66.4	64.9	64.7	68.4	69.7	71.5	73.0	73.1								103.6
LOC SC-CHECKTABV	200	64.8	65.6	64.6	66.9	64.4	69.0	70.9	72.1	73.8	75.6	76.8								109.3
DATE 12/12/74	250	69.3	68.9	70.4	69.9	70.9	71.9	72.9	73.1	73.2	75.1	75.3								106.3
RUN 37/A	315	69.8	69.9	70.6	71.2	71.6	71.7	71.8	72.1	72.5	74.3	74.3								106.8
TAPE	400	67.8	68.4	69.9	69.2	69.6	70.2	70.6	71.4	72.8	73.8	74.1								104.9
BAR 28.7 IHG	500	67.1	67.1	67.1	67.7	68.8	70.4	71.8	73.2	74.8	74.8	73.8								103.6
(00335. S/M2)	630	69.1	68.9	70.4	70.7	72.7	74.2	74.1	76.4	76.2	77.1	74.4								100.3
TAMB 44. DEG F	800	73.1	71.9	73.1	73.2	73.8	74.7	74.1	76.4	77.8	77.3	74.9								109.1
(289. DEG K)	1000	68.4	68.4	68.4	69.7	71.8	73.2	74.3	76.1	77.2	77.8	72.3								107.9
TWET 48. DEG F	1250	68.4	67.4	70.6	73.7	73.7	76.5	79.3	79.4	80.2	82.1	74.9								111.2
(278. DEG K)	1500	67.2	66.7	69.8	71.5	73.9	75.9	78.8	78.6	78.5	77.4	72.4								108.4
MACH 0.30 G-/M3	2000	69.4	68.2	67.4	69.1	71.7	72.5	73.3	74.4	75.8	73.9	69.9								106.1
(.00539. SG/M3)	2500	64.7	65.5	64.4	68.4	70.5	72.8	72.9	74.2	74.4	72.8	69.3								105.3
MFA 5400. RPM	3150	64.2	64.7	65.4	68.1	70.8	72.7	74.8	75.8	77.8	77.1	73.3								107.2
(579. RAD/SEC)	4000	67.1	66.7	66.5	71.8	73.7	74.9	74.7	81.2	81.8	83.6	78.5								112.3
NFR 5571. RPM	5000	64.8	65.8	67.8	69.8	72.2	73.7	78.4	80.4	80.9	80.3	73.9								110.9
(583. RAD/SEC)	6300	69.4	68.8	67.7	70.2	72.6	74.8	78.9	80.7	82.4	80.5	74.8								111.6
NFS 8023. RPM	8000	64.5	65.9	67.2	70.7	73.3	75.8	78.2	81.8	82.8	80.7	75.4								111.8
(839. RAD/SEC)	10000	64.3	64.2	66.3	69.8	71.8	74.4	77.4	80.4	82.8	78.7	71.8								111.2
NO. OF BLADES 19	12500	64.8	65.4	66.8	71.8	73.8	74.8	77.8	78.8	82.8	78.1	72.3								111.1
PAM TIP SPEED	14000	63.3	62.9	64.8	71.5	74.7	73.7	78.4	79.8	81.8	76.6	71.2								110.8
490. FT/SEC	20000	63.8	63.5	64.7	71.4	73.3	74.1	77.8	80.2	81.5	77.4	70.7								111.8
	25000	64.7	64.8	64.8	70.7	71.6	74.9	78.9	78.2	78.3	78.7	68.7								110.8
	31500	64.4	63.9	65.1	69.5	73.1	74.3	78.3	78.1	78.8	75.4	67.2								111.8
	40000	63.8	63.8	63.8	66.6	68.6	71.9	73.6	74.7	75.8	72.8	63.8								109.7
	50000	64.7	64.3	65.5	65.3	66.8	68.7	78.1	78.8	78.8	69.2	62.8								108.4
	63000	69.8	65.2	67.9	65.1	66.8	68.7	67.1	66.1	66.1	65.5	62.8								109.4
	80000	73.3	67.8	78.8	67.8	66.2	68.1	68.1	68.1	66.8	67.8	66.8								110.8
OVERALL MEASURED																				
OVERALL CALCULATED		83.1	82.8	85.1	86.8	87.8	88.8	88.3	91.8	93.8	92.1	87.8								124.8
	PWRR	92.3	93.8	94.8	96.2	98.8	100.8	101.8	103.8	104.4	103.2	99.8								

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 12 DAY 18 YR, 848

PROF: SPINNER PRESSURE LEVELS (SQ. DEG. F. 78 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS).

		53. (0.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.74)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	125	43.3	44.6	49.5	46.0	44.9	44.3	44.6	47.8	47.4	46.2	45.1						
VE-ICLE 0-SS	160	41.9	42.7	43.9	44.6	44.1	44.8	46.8	46.4	46.8	47.8	44.8						
CONFIG 24	200	41.8	42.8	44.3	45.8	44.8	47.0	48.4	48.8	48.2	48.6	46.2						
LOC MCDONNELL TABV	250	45.2	45.8	46.8	47.9	48.8	49.8	50.3	49.7	48.3	48.8	44.8						
DATE 12/12/74	315	45.8	46.7	48.1	49.1	48.7	48.5	49.8	48.6	47.5	47.1	43.3						
RUN 37/8	400	43.5	45.1	46.3	47.8	47.8	47.9	47.8	46.9	46.4	45.8	42.8						
TAPE	500	42.7	43.8	44.5	45.4	46.7	46.1	46.8	45.4	44.7	43.3	42.8						
BAR 28.7 IHG	630	44.8	45.4	47.4	48.3	50.4	51.8	53.2	52.5	50.9	49.3	42.5						
(90338. N/M2)	800	48.4	48.3	50.2	49.7	51.3	52.2	53.8	52.4	51.4	49.4	42.7						
TAMB 66. DEG F	1000	43.8	44.4	45.3	47.1	48.4	50.4	51.2	52.8	51.5	49.7	39.9						
(292. DEG K)	1250	43.4	43.5	47.5	51.8	51.1	53.7	55.8	55.1	54.3	53.7	47.8						
(278. DEG K)	1600	41.9	42.8	46.3	48.6	50.4	52.3	52.3	52.1	50.4	48.7	39.1						
WACT 5.36 G/M3	2000	40.8	41.9	43.8	46.8	48.4	49.4	49.8	49.7	48.6	46.8	38.1						
(.00536 KG/M3)	2500	38.8	40.9	42.6	45.1	47.4	48.7	48.2	47.9	47.8	45.8	38.1						
MFA 5400. RPM	3150	38.1	39.8	41.8	44.6	47.4	48.1	47.8	48.3	48.9	47.3	38.4						
(475. RAD/SEC)	4000	40.5	43.4	44.1	47.9	48.9	52.9	54.1	55.5	54.3	53.8	48.5						
NFC 5571. RPM	5000	37.9	40.1	42.3	45.4	48.1	51.4	53.9	54.4	52.9	49.3	37.3						
(583. RAD/SEC)	6300	37.8	39.6	42.2	45.3	47.8	50.9	53.2	53.9	53.4	48.2	38.8						
NFB 7833. RPM	8000	38.4	38.3	40.4	44.7	46.4	48.7	51.4	52.8	51.5	48.5	38.8						
(820. RAD/SEC)	10000	33.2	34.9	38.1	42.2	44.2	46.8	48.8	50.5	50.8	41.8	28.8						
NO. OF BLADES IS	12500	31.8	33.6	36.1	41.8	43.4	44.9	47.8	47.2	46.4	37.3	21.3						
PAN TIP SPEED	16000	24.8	26.8	30.6	36.1	37.5	40.2	41.7	42.8	40.4	30.4	10.8						
470. FT/SEC	20000	19.2	22.8	26.3	33.2	34.4	36.8	37.2	37.8	34.1	21.8							
	25000	11.4	15.4	18.3	25.6	27.8	28.8	28.8	27.6	22.5	7.8							
	31500		5.3	8.8	14.3	17.9	19.8	18.5	15.8	8.3								
	40000						8.8											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED	ATED	37.3	38.6	41.8	43.8	44.8	46.8	45.1	44.8	43.8	41.8	38.3						
	PWBB	68.8	67.8	68.6	72.3	74.3	76.1	77.3	76.8	77.8	76.8	64.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.5	75.6	79.9	82.7	83.1	81.4	78.4	72.9	76.7	75.1	76.9							113.5
125	67.0	67.4	69.9	69.2	71.9	68.2	68.6	70.7	71.2	73.1	75.9							104.8
160	65.8	66.6	66.6	67.2	67.9	66.9	68.1	70.2	71.5	74.1	75.1							103.8
200	65.5	65.6	66.9	67.2	68.4	70.1	71.1	72.8	73.2	76.1	77.1							105.6
250	68.5	68.9	69.6	70.9	71.6	71.9	72.3	73.1	73.2	74.8	75.8							108.3
315	69.0	70.1	70.9	71.7	71.4	71.7	71.3	72.1	72.7	74.1	74.6							106.0
400	67.8	68.9	68.4	69.7	70.1	70.4	71.4	72.1	72.5	73.8	74.3							105.2
500	66.3	67.1	67.1	68.2	69.1	70.7	71.9	73.2	73.2	74.6	73.9							105.3
630	68.4	69.1	70.4	71.4	73.2	74.7	75.9	76.9	76.2	77.1	74.4							108.5
800	73.1	71.6	73.4	72.4	75.1	75.7	76.6	77.4	77.5	78.1	78.1							109.7
1000	67.9	68.8	68.9	71.2	73.1	74.9	76.3	77.9	78.7	79.3	73.8							109.4
1250	69.2	69.7	74.1	77.5	77.4	79.5	81.3	83.6	83.2	84.9	78.4							114.5
1600	68.4	67.7	70.4	73.3	74.0	76.5	77.8	79.1	79.0	80.9	74.4							110.6
2000	63.2	65.7	65.6	67.1	68.2	69.0	69.3	70.6	70.5	71.9	68.3							102.9
2500	64.9	66.2	66.3	68.3	70.2	72.0	71.8	72.6	74.0	73.1	69.1							105.0
3150	64.9	64.2	67.1	67.4	69.0	71.2	72.5	73.5	76.0	75.1	69.0							105.7
4000	67.1	67.4	69.0	70.6	73.2	74.7	76.4	78.7	81.1	81.3	73.0							110.5
5000	68.8	68.8	68.9	69.8	72.2	74.1	77.8	80.9	80.6	80.9	73.1							110.8
6300	66.6	72.4	68.9	71.9	71.8	75.1	77.8	80.2	81.5	79.2	73.0							111.0
8000	67.2	71.5	67.6	72.4	71.9	75.0	77.6	80.6	81.6	80.4	74.3							111.3
10000	74.2	69.8	67.4	72.6	72.0	75.3	78.1	80.3	82.0	79.6	72.9							111.6
12500	68.4	70.8	67.7	71.4	72.6	75.4	78.4	80.1	82.4	79.2	74.1							111.7
16000	71.4	70.4	64.5	73.3	71.7	73.5	76.4	79.1	80.6	77.8	72.6							110.7
20000	67.4	68.2	67.2	74.4	71.3	74.6	77.1	79.7	81.7	77.4	71.5							111.8
25000	65.6	67.5	65.1	68.4	70.8	73.2	75.2	77.2	79.0	74.7	69.2							109.9
31500	64.6	65.1	64.8	72.7	70.8	74.3	75.1	77.1	77.8	74.4	67.2							110.7
40000	64.5	64.9	64.6	69.6	67.5	70.5	72.6	74.1	74.6	72.0	63.5							109.2
50000	67.5	65.9	67.1	67.6	68.2	68.8	69.9	70.1	70.7	69.2	63.1							108.7
63000	69.7	66.8	68.8	68.2	68.9	68.3	68.7	67.4	66.9	67.1	64.8							110.8
80000	73.9	69.4	72.4	77.1	69.7	70.3	70.2	69.5	67.9	68.8	67.4							110.7
OVERALL MEASURED																		
OVERALL CALCULATED	83.8	84.8	85.2	87.9	88.0	89.0	90.3	92.1	93.0	92.4	88.3							120.4
PNDB	93.0	94.5	94.4	96.2	97.8	99.3	101.0	103.1	104.0	104.2	98.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO DEGREES (RAD RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																		
63																		
80																		
100	49.9	52.9	57.8	61.0	61.5	59.7	56.2	49.8	46.3	48.5	46.8							
125	43.3	44.6	47.7	47.4	50.2	46.3	46.3	47.5	46.7	44.4	45.6							
160	41.9	43.7	44.4	45.3	46.1	45.0	45.7	46.9	46.8	47.3	44.8							
200	41.6	42.6	44.6	45.2	46.6	48.2	48.7	49.3	48.5	49.1	46.4							
250	44.5	45.8	47.2	48.9	49.7	49.8	49.8	49.7	48.3	47.7	45.0							
315	44.9	47.0	48.4	49.4	49.4	49.5	48.7	48.6	47.7	46.8	43.5							
400	43.5	45.6	45.9	47.5	48.1	48.2	48.6	48.5	47.4	46.4	43.0							
500	41.9	43.8	44.5	45.9	47.0	48.4	49.0	49.4	48.0	47.0	42.3							
630	43.8	45.7	47.6	48.1	50.9	52.3	52.9	53.1	50.9	49.3	42.5							
800	46.4	48.0	50.5	50.0	52.8	53.2	53.5	53.4	51.9	50.1	43.0							
1000	43.1	44.9	45.8	48.6	50.7	52.3	53.2	53.7	53.0	51.2	41.4							
1250	44.2	45.7	51.0	54.8	54.8	56.7	56.0	59.3	57.3	56.4	45.5							
1600	41.2	43.8	47.0	50.4	51.2	53.5	54.3	54.6	52.9	52.2	41.1							
2000	37.2	41.4	42.1	44.0	45.3	45.8	45.6	45.9	44.1	42.8	34.8							
2500	39.2	41.7	42.6	45.1	47.1	48.7	47.9	47.7	47.4	43.8	34.9							
3150	38.9	39.4	43.0	43.8	45.6	47.6	48.3	48.3	48.9	45.3	34.1							
4000	40.5	42.1	44.5	46.6	49.4	50.0	51.8	53.0	53.5	50.7	37.0							
5000	41.9	43.3	44.2	45.6	48.1	49.6	53.0	54.8	52.6	49.0	36.5							
6300	38.8	40.0	43.4	47.0	47.0	50.1	52.2	53.3	52.6	46.9	34.5							
8000	38.0	43.9	41.0	46.3	46.1	48.9	50.8	52.5	51.2	46.2	33.0							
10000	43.1	40.5	39.2	45.1	44.6	47.7	49.6	50.4	49.4	42.7	27.7							
12500	34.5	36.9	37.2	41.6	43.0	45.5	47.6	47.6	46.8	38.4	23.2							
16000	32.8	34.4	30.2	39.9	38.6	40.0	41.7	42.2	39.8	29.7	18.4							
20000	23.0	26.8	27.8	36.2	33.4	36.3	37.3	37.1	34.4	21.7								
25000	12.3	18.3	18.5	23.3	26.2	27.9	28.6	28.6	22.2	6.8								
31500		4.5	7.7	17.5	18.2	18.9	17.2	14.6	7.0									
40000						8.1												
50000																		
63000																		
80000																		
OVERALL CALCULATED	56.9	58.8	61.6	64.2	65.1	65.2	65.3	65.0	64.3	62.5	55.7							
PNDB	66.3	68.9	70.8	72.4	74.1	75.4	76.4	77.4	76.6	74.8	63.4							

SIDELINE 200. FT. (60.96 M)
VEHICLE R-58
CONFIG 25
LOC SCHENECTADY
DATE 12/13/74
RUN 39/1
TAPE
BAR 29.9 HG (01000. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 45. DEG F (280. DEG K)
HACT 6.96 GM/M3 (.00696 KG/M3)
NFA 5509. RPM (577. RAD/SEC)
NFK 5566. RPM (583. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 481. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.78)	0. (0.	0. (1(0.	0. (1(0.	0. (1(0.	0. (1(0.	0. (1(0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	72.8	75.1	74.1	71.7	69.9	70.9	73.1	72.9	72.7	74.6	80.4							108.2
VEHICLE R-SS	125	69.5	69.6	71.4	70.9	72.6	71.2	71.9	73.7	74.7	76.8	80.1							107.7
CONFIG 25	160	68.8	69.1	69.1	69.9	70.4	70.2	71.9	73.7	75.2	77.8	80.1							107.5
LOC SCHENECTADY	200	67.5	68.1	68.4	69.9	71.9	73.6	74.1	77.1	76.5	79.3	81.1							109.1
DATE 12/13/74	250	71.0	71.6	72.6	73.9	74.6	74.9	75.8	77.1	77.2	78.6	80.1							109.9
RUN 39/2	315	73.0	73.6	74.4	74.9	74.9	75.2	75.1	77.4	76.2	78.6	79.1							110.8
TAPE	400	70.5	71.4	71.9	72.7	72.9	73.4	74.4	76.1	75.7	77.6	78.6							109.6
BAR 29.9 HG	500	69.1	69.6	70.1	70.9	72.1	72.9	75.1	77.9	76.7	78.1	77.4							108.7
(01000. N/M2)	630	71.4	71.6	72.9	74.2	75.9	76.7	78.9	81.9	79.2	79.6	78.1							111.7
TAMB 48. DEG F	800	73.9	73.4	74.4	74.7	76.4	77.4	78.6	79.1	79.7	79.8	78.1							111.5
(282. DEG K)	1000	70.6	71.4	71.1	73.7	75.4	77.2	78.8	80.1	81.0	80.6	78.8							111.6
TWET 45. DEG F	1250	69.2	68.7	71.1	73.7	75.9	77.7	79.3	80.9	81.5	81.4	78.9							112.1
(280. DEG K)	1600	70.2	70.4	75.1	76.9	78.7	79.7	80.6	82.6	84.5	83.6	77.4							114.3
HACT 6.96 GM/M3	2000	66.4	67.2	68.4	70.3	71.5	72.5	73.6	73.9	74.5	74.6	71.8							106.3
(.00696 KG/M3)	2500	66.6	67.7	68.8	71.6	73.0	74.2	73.5	73.6	74.7	73.6	71.6							106.7
NFA 6296. RPM	3150	66.1	66.7	68.3	71.1	72.7	74.7	76.0	77.0	80.5	77.9	72.8							109.3
(659. RAD/SEC)	4000	67.1	68.1	70.0	72.8	73.7	77.2	79.2	81.2	83.6	79.8	74.7							112.3
NFK 6364. RPM	5000	67.8	68.1	70.9	73.5	75.4	78.1	82.1	84.4	85.1	82.3	76.6							114.4
(666. RAD/SEC)	6300	68.6	69.6	69.4	73.6	74.5	78.3	81.3	83.2	84.8	80.4	75.8							113.7
NFB 8823. RPM	8000	66.7	68.3	70.4	74.4	75.4	79.2	81.8	84.1	86.1	83.1	76.8							115.8
(924. RAD/SEC)	10000	65.9	67.3	69.6	75.4	76.0	78.8	82.3	84.6	85.7	81.1	75.2							114.9
NO. OF BLADES 15	12500	66.9	67.8	69.2	75.4	75.3	78.1	81.9	83.4	85.9	80.9	75.1							114.8
FAN TIP SPEED	16000	63.9	64.9	67.0	77.0	73.5	77.0	79.4	82.4	83.4	78.5	73.5							113.3
550. FT/SEC	20000	64.3	65.2	67.5	78.4	74.0	77.6	80.1	83.2	85.5	79.7	74.2							115.0
	25000	65.4	65.5	67.3	81.6	74.1	76.9	78.7	81.0	82.3	77.4	71.4							114.3
	31500	64.4	64.9	67.3	76.9	74.6	77.5	78.8	81.1	81.5	76.7	69.7							114.3
	40000	64.8	64.9	66.3	74.6	72.0	74.5	76.6	77.9	78.8	74.5	66.2							113.1
	50000	67.3	66.4	67.8	72.4	69.4	72.0	73.4	73.1	73.9	72.0	64.1							111.7
	63000	69.7	67.3	69.1	70.2	67.9	70.0	69.7	69.2	68.9	68.3	64.8							112.0
	80000	73.9	69.9	72.4	70.3	69.7	70.3	70.2	69.5	67.9	66.6	67.4							117.4
OVERALL MEASURED																			
OVERALL CALCULATED		84.1	84.4	85.7	89.3	88.9	90.9	93.0	95.0	96.3	93.9	91.4							127.3
	PNOF	93.5	94.3	95.9	98.2	100.1	101.8	104.3	106.3	107.2	105.3	101.5							

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PRES. DATE - MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R=55
CONFIG 25
LOC SCHENECTADY
DATE 12/13/74
RUN 39/2
TAPE
BAR 29.9 HG (101000. N/M2)
AMB 40. DEG F (282. DEG K)
INLET 45. DEG F (280. DEG K)
MACH 0.28 GM/M3 (.000000 KG/M3)
NFA 6296. RPM (659. RAD/SEC)
NFK 6364. RPM (666. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 950. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.1	52.4	52.1	50.0	49.3	49.2	50.9	49.8	48.3	50.3	50.3						
125	45.8	46.8	49.2	49.1	51.0	49.3	49.6	50.5	50.2	50.2	49.9						
160	44.9	46.2	46.9	48.1	48.6	48.3	49.5	50.4	50.6	51.0	49.6						
200	43.6	45.1	46.1	48.0	50.1	51.7	51.7	53.8	51.7	52.4	50.4						
250	47.0	48.5	50.2	51.9	52.7	52.8	53.3	53.7	52.3	51.5	49.2						
315	48.9	50.5	51.9	52.8	52.9	53.0	52.5	53.9	51.2	51.3	48.0						
400	45.5	48.1	49.3	50.5	50.8	51.2	51.6	52.5	50.6	50.2	47.3						
500	44.7	46.3	47.3	48.7	50.0	50.6	52.3	54.2	51.5	50.5	45.8						
630	46.6	48.2	50.1	51.6	53.7	54.3	55.9	56.1	53.9	51.6	46.3						
800	49.2	49.8	51.5	52.2	54.0	54.9	55.5	55.2	54.2	51.9	46.0						
1000	45.8	47.6	48.1	51.1	52.9	54.5	55.7	56.0	55.3	52.4	44.4						
1250	44.2	44.7	46.3	51.3	53.3	54.2	56.0	56.6	55.6	52.9	44.0						
1600	44.9	46.3	51.8	53.1	55.9	56.8	57.1	58.1	58.4	54.9	44.1						
2000	41.0	43.4	44.9	47.2	48.5	49.3	49.9	49.1	48.1	45.6	38.1						
2500	41.0	43.2	45.1	48.3	49.9	50.9	49.8	48.7	48.1	44.3	37.4						
3150	40.1	41.9	44.3	47.6	49.3	51.1	51.8	51.8	53.4	48.0	37.9						
4000	40.5	42.8	45.5	48.9	51.9	53.1	54.5	55.5	56.0	49.2	38.7						
5000	40.9	42.5	46.2	49.3	51.4	53.8	57.2	58.3	57.1	51.2	40.0						
6300	38.8	41.3	45.7	48.7	49.8	53.4	55.7	56.3	55.9	48.2	38.5						
8000	37.5	40.7	43.8	48.3	49.8	53.1	55.0	56.0	55.7	48.9	38.5						
10000	34.9	38.0	41.4	47.9	48.8	51.2	53.9	54.8	53.2	44.2	36.0						
12500	33.0	35.9	38.7	45.6	45.8	48.3	51.1	50.8	50.3	40.1	24.2						
16000	25.3	28.9	32.7	43.6	40.3	43.5	44.7	45.5	42.7	31.2	13.1						
20000	19.7	23.8	28.1	40.2	36.2	39.3	40.3	40.8	38.2	23.9	1.4						
25000	12.0	16.3	20.8	36.5	29.4	31.7	31.5	30.3	25.5	9.8							
31500		4.2	10.2	21.7	20.2	22.1	21.0	18.6	10.8								
40000				4.4	2.7	4.1	2.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.3	60.0	61.7	63.5	64.9	66.1	67.4	68.2	67.2	64.0	59.3						
PNDB	67.1	69.1	72.0	74.4	76.5	77.9	79.7	80.8	79.7	75.0	66.3						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. EAV)

ANGLES FROM INLET IN DEGREES (ARP RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (10.	0. (20.	0. (30.	0. (40.	0. (50.)	PWL
50																		
63																		
80																		
100	67.8	70.9	71.6	76.4	78.5	71.2	71.4	72.4	75.7	80.5	84.4							109.7
125	76.3	79.1	78.9	76.7	75.6	75.2	75.6	77.4	78.5	81.3	84.1							112.5
160	72.0	72.9	72.6	73.4	73.6	73.4	75.4	77.2	79.0	81.6	84.1							111.2
200	70.8	70.9	71.4	72.9	74.6	76.4	77.1	79.4	80.2	83.3	85.6							112.6
250	74.3	75.1	76.1	76.9	77.6	77.6	78.8	80.1	80.7	82.8	84.3							113.3
315	75.8	76.6	76.9	77.7	78.1	78.4	78.3	79.4	80.0	82.6	83.8							113.3
400	74.1	74.9	74.9	75.9	76.1	76.2	77.4	78.9	79.7	81.8	82.8							112.1
500	72.1	72.6	73.4	74.2	75.1	76.2	77.6	79.7	80.2	81.3	81.8							111.7
630	73.9	74.6	75.6	76.8	77.6	79.7	81.1	82.4	82.2	82.8	82.1							114.1
800	76.1	76.1	76.9	77.7	79.4	80.2	81.3	81.9	82.0	82.6	81.1							114.2
1000	73.4	73.6	74.1	75.7	77.9	79.4	81.1	82.1	83.2	82.6	80.1							113.8
1250	72.2	72.2	73.8	76.5	78.2	79.5	81.6	82.6	83.2	82.6	79.9							114.8
1600	71.4	72.2	74.4	75.3	77.5	79.2	80.8	81.6	82.0	81.6	77.9							113.2
2000	69.9	70.7	72.4	74.1	75.5	76.5	78.1	78.1	78.5	78.6	76.1							110.4
2500	69.4	71.2	72.6	74.8	76.2	77.2	76.3	77.1	78.0	78.9	75.6							109.9
3150	69.1	70.4	71.6	74.1	76.2	77.7	78.7	79.3	82.2	78.1	75.5							111.6
4000	70.3	72.1	74.0	77.1	79.7	80.7	82.9	84.0	87.4	82.6	78.0							115.8
5000	69.8	72.1	73.7	76.5	79.4	80.1	84.6	86.9	88.1	83.5	78.4							117.0
6300	69.6	72.1	72.6	76.1	78.0	81.1	84.1	86.7	87.0	82.4	77.2							116.3
8000	69.7	73.8	73.6	76.9	79.2	82.2	85.6	87.6	89.1	84.9	78.5							118.1
10000	68.9	74.3	73.8	77.1	79.5	82.8	85.8	88.1	89.0	83.6	77.9							118.3
12500	69.4	77.0	72.7	76.4	79.1	81.4	84.6	87.6	88.6	83.4	77.6							118.0
16000	66.4	76.9	70.5	74.3	77.0	80.0	83.2	85.9	86.4	81.5	76.0							116.5
20000	66.6	78.0	71.0	74.7	77.5	80.9	84.1	86.7	88.2	82.7	76.5							116.1
25000	66.1	79.3	70.8	74.4	77.6	79.7	82.2	85.2	86.3	81.4	75.2							117.3
31500	66.1	79.1	71.0	75.7	78.0	80.3	82.3	84.9	85.0	79.4	72.4							117.7
40000	66.5	78.2	69.6	72.3	75.8	78.0	80.8	81.9	82.1	77.5	68.2							116.7
50000	67.3	74.4	68.8	69.9	71.9	74.8	77.2	77.3	77.4	74.0	65.8							114.7
63000	69.7	67.6	69.3	68.2	68.6	70.0	71.7	70.7	71.1	69.1	64.8							112.8
80000	73.9	71.2	72.4	70.1	69.7	70.3	70.2	69.5	68.4	68.8	67.4							117.8
OVERALL MEASURED																		
OVERALL CALCULATED	96.5	89.8	88.5	90.1	91.9	93.6	96.0	98.0	99.0	96.4	95.0							120.8
PNLM	96.4	98.0	99.2	101.5	103.5	104.7	107.0	108.8	110.1	107.3	104.5							

FULL SCALE DATA REDUCTION PROGRAM — PREC. DATE - MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.77)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
FREQ.																	
50																	
63																	
SIDELINE 200. FT. (60.96 M)	80																
VEHICLE A-55	100	44.1	48.2	49.6	48.7	49.5	49.4	49.2	49.3	51.3	54.3	54.3					
CONFIG 25	125	52.5	56.3	56.7	54.9	54.0	53.3	53.3	54.3	53.9	54.7	53.9					
LOC SCHENECTADY	160	48.2	50.0	50.4	51.8	51.9	51.5	53.0	53.9	54.3	54.8	53.6					
DATE 12/13/74	200	46.8	47.9	49.1	51.0	52.8	54.4	54.7	56.1	55.5	56.4	54.9					
RUN 39/3	250	50.2	52.3	53.7	54.9	55.7	55.6	56.3	56.7	55.8	55.7	53.5					
TAPE	315	51.6	53.5	54.4	55.6	56.2	56.3	56.7	55.9	55.0	55.3	52.8					
BAR 29.9 HG	400	49.8	51.6	52.3	53.7	54.1	53.9	54.6	55.3	54.6	54.2	51.5					
(101000. N/M2)	500	47.7	49.3	50.7	51.9	53.0	53.9	54.8	55.9	55.0	53.8	50.0					
TAMB 48. DEG F	630	49.3	51.2	52.9	54.5	55.7	57.3	58.2	58.6	56.8	56.1	50.3					
(282. DEG K)	800	51.4	52.5	54.0	55.2	57.0	57.7	58.3	57.9	56.4	54.6	49.0					
THET 45. DEG	1000	48.6	49.9	51.1	53.1	55.4	56.8	57.9	58.0	57.5	54.4	47.8					
(253. DEG K)	1250	47.2	48.2	50.5	52.8	55.6	56.7	58.3	58.3	57.3	54.2	47.0					
	1600	46.2	48.1	51.0	52.9	54.7	56.3	57.3	57.1	55.9	52.9	44.8					
MACT 6.96 GM/M3	2000	44.5	46.4	48.8	51.0	52.5	53.3	54.4	53.4	52.1	49.8	42.3					
(.006000 KG/M3)	2500	43.7	46.7	48.9	51.6	53.1	53.9	52.4	52.2	51.4	47.5	41.4					
NFA 7062. RPM	3150	43.1	45.6	47.5	50.6	52.5	54.1	54.6	54.0	52.2	48.3	40.6					
(741. RAD/SEC)	4000	43.8	46.8	49.5	53.1	55.9	56.6	56.3	56.2	53.6	52.0	42.0					
NFK 7158. RPM	5000	42.9	46.5	49.0	52.3	55.4	55.8	56.7	60.6	60.1	52.5	41.8					
(749. RAD/SEC)	6300	41.8	45.3	47.2	51.7	53.3	56.1	56.4	59.8	58.1	50.2	38.8					
NFB 8823. RPM	8000	40.5	46.2	47.0	50.8	53.3	56.1	58.8	59.5	58.7	50.7	37.2					
(924. RAD/SEC)	10000	37.9	45.3	45.4	49.6	52.1	55.2	57.4	58.1	56.4	46.7	32.7					
NO. OF BLADES 15	12500	35.5	45.1	42.2	46.6	49.5	51.5	53.8	55.1	53.0	42.8	26.7					
FAN TIP SPEED	16000	27.8	40.9	36.2	40.9	43.8	46.5	48.5	49.0	45.7	34.2	15.6					
618. FT/SEC	20000	22.0	36.5	31.6	36.4	39.7	42.8	44.3	44.1	40.9	26.9	3.7					
	25000	14.8	30.1	24.3	29.3	32.9	34.4	35.0	34.6	29.5	13.8						
	31500	0.1	18.5	13.9	20.5	23.5	24.9	24.5	22.3	14.3							
	40000		0.6		2.2	6.5	7.6	7.1	1.7								
	50000																
	63000																
	80000																
OVERALL CALCULATED		61.8	63.4	64.6	66.2	67.8	68.7	70.0	70.5	69.7	66.7	63.3					
PNDB		70.1	72.9	75.0	77.7	79.9	80.9	82.4	83.1	82.7	77.2	69.8					

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 16 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	67.6	70.9	72.1	72.4	73.4	73.9	74.1	75.4	79.0	83.6	87.8							112.5
125	77.3	77.1	76.4	76.2	76.6	76.4	79.4	80.7	81.7	84.3	87.4							114.7
160	77.3	75.9	75.4	76.2	76.6	76.2	78.4	80.2	82.2	85.3	87.6							114.5
200	73.5	73.6	74.6	75.9	77.6	79.4	80.1	82.4	84.0	86.8	88.6							115.8
250	78.8	78.9	80.9	81.9	82.6	83.9	84.1	86.4	86.2	88.3	88.8							118.7
315	79.3	79.4	79.9	80.7	81.1	81.2	81.8	82.9	83.7	84.8	87.6							116.6
400	77.6	78.1	77.9	78.7	79.4	79.9	80.9	82.4	83.0	84.8	86.8							115.5
500	73.3	75.9	76.4	77.2	77.5	79.4	81.1	82.9	83.6	85.1	85.4							115.9
630	76.6	77.1	78.1	79.4	80.7	81.9	83.9	84.7	84.7	85.6	85.1							116.6
800	78.1	78.4	79.1	79.3	81.5	82.9	83.6	84.9	84.5	85.3	84.6							116.8
1000	76.1	76.6	76.9	78.9	80.4	81.7	83.3	84.6	85.2	84.6	83.1							116.2
1250	74.9	74.9	76.6	79.1	80.4	82.0	83.1	84.6	85.2	84.6	82.9							116.1
1600	73.9	74.4	76.4	77.5	79.2	80.5	81.3	81.9	83.5	82.8	80.9							114.4
2000	74.2	74.9	76.1	78.6	80.7	82.0	81.3	81.4	83.5	81.6	80.6							114.6
2500	73.4	74.2	75.5	77.8	79.2	79.7	79.3	80.3	81.7	80.1	79.1							113.1
3150	72.4	73.7	74.3	76.5	79.0	80.2	80.2	81.3	83.0	80.1	78.0							113.5
4000	73.8	75.4	77.3	81.3	83.2	84.2	86.4	87.7	90.9	85.3	80.7							119.3
5000	73.0	74.1	76.4	79.3	81.4	83.1	87.6	87.9	89.6	85.0	80.4							118.8
6300	72.6	74.7	76.1	79.2	81.5	84.1	87.6	90.2	89.5	84.5	79.7							119.6
8000	72.4	75.3	76.5	79.4	82.4	85.0	87.9	90.1	92.2	86.4	81.3							120.7
10000	72.2	75.3	76.7	80.7	83.0	86.1	89.3	90.9	91.0	85.4	80.2							121.0
12500	72.2	76.5	76.2	79.7	82.4	84.9	88.2	90.9	90.9	86.0	80.6							120.9
16000	69.4	76.7	73.8	77.6	80.5	83.6	86.5	89.7	88.9	83.9	78.8							119.0
20000	68.9	77.3	74.5	78.5	81.4	83.4	87.1	91.0	90.6	84.5	79.3							121.1
25000	69.7	79.6	74.7	78.2	81.4	83.8	86.5	90.3	90.6	84.5	78.5							121.5
31500	68.7	80.5	74.9	78.8	81.6	84.4	85.9	88.7	88.4	83.5	78.3							121.3
40000	69.2	80.8	72.5	76.7	78.9	81.9	84.2	85.5	85.2	81.2	71.4							120.1
50000	69.6	82.7	70.9	73.4	75.7	78.3	80.5	80.8	80.7	79.0	67.1							118.9
63000	70.7	79.4	78.1	76.0	78.7	72.6	74.5	73.7	73.9	72.1	65.4							119.0
80000	74.2	74.4	72.4	70.3	70.0	70.8	71.0	70.5	69.7	69.6	67.4							118.4
OVERALL MEASURED																		
OVERALL CALCULATED	89.2	92.0	91.1	93.2	95.1	96.9	99.2	101.3	101.8	99.1	98.4							133.8
PNLB	99.6	100.8	102.2	104.9	106.7	108.0	109.9	111.4	113.1	109.9	107.5							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.1	46.2	50.1	50.7	51.6	52.2	51.9	52.3	54.5	57.0	57.5						
VEHICLE A-3S	125	53.5	54.3	54.2	54.4	57.0	56.6	57.1	57.5	57.2	57.7	57.1						
CONFIG 25	160	51.2	53.3	53.2	54.3	54.9	54.3	56.0	56.9	57.6	58.5	57.1						
LOC SCHNEECTADY	200	49.6	50.6	52.3	54.0	55.8	57.4	57.7	59.1	59.2	59.9	57.9						
DATE 12/13/74	250	54.7	55.8	58.5	59.9	60.7	61.8	61.8	63.0	61.3	61.2	58.0						
RUN 39/4	315	55.1	56.2	57.4	58.6	59.2	59.0	59.2	59.4	58.7	58.6	56.5						
TAPE	400	53.3	54.9	55.3	56.5	57.3	57.7	58.1	58.8	57.9	57.4	55.5						
BAR 29.9 HG	500	50.9	52.5	53.7	54.9	55.5	57.1	58.3	59.2	57.7	57.5	53.8						
(101000. N/M2)	630	52.1	53.7	55.4	57.1	59.4	59.5	60.9	60.8	59.4	57.8	53.3						
TAMB 49. DEG F	800	53.4	54.8	56.2	57.5	59.3	60.4	60.5	60.9	58.9	57.4	52.5						
(283. DEG K)	1000	51.3	52.9	53.8	56.3	57.9	59.0	60.2	60.5	59.5	58.4	50.8						
TWET 45. DEG F	1250	49.9	51.8	53.3	56.3	57.8	59.2	59.8	60.3	59.3	56.2	50.8						
(280. DEG K)	1600	48.7	50.3	53.0	54.9	56.4	57.5	57.8	57.4	57.4	53.7	47.8						
HACT 6.67 GM/M3	2000	48.7	50.6	52.6	55.5	57.8	58.8	57.6	56.6	57.1	52.6	46.9						
(.00667 G/M3)	2500	47.7	49.7	51.9	54.3	56.1	56.4	55.4	55.4	55.1	50.8	44.9						
NFA 7866. RPM	3150	46.4	48.2	50.3	53.1	55.6	56.6	56.1	56.0	56.0	50.3	43.1						
(824. RAD/SEC)	4000	47.3	50.1	52.0	57.4	59.4	60.2	61.8	62.0	63.3	54.7	44.7						
NFK 7943. RPM	5000	46.2	48.5	51.7	54.8	57.4	58.9	62.7	61.9	61.7	54.0	43.8						
(832. RAD/SEC)	6300	44.8	48.3	50.7	54.2	56.8	59.1	61.9	63.3	60.9	52.2	41.3						
NFB 8823. RPM	8000	43.3	47.7	50.0	53.4	56.6	58.9	61.0	62.0	61.7	52.2	40.0						
(924. RAD/SEC)	10000	41.1	44.0	48.5	53.1	55.6	58.4	60.9	60.9	58.5	48.5	35.0						
NO. OF BLADES 15	12500	38.3	44.7	45.7	49.9	52.8	55.1	57.4	58.3	55.3	45.2	29.7						
FAN TIP SPEED	16000	30.9	40.7	39.5	44.2	47.4	50.1	51.8	52.8	48.2	36.5	18.4						
687. FT/SEC	20000	24.3	35.9	35.1	40.2	43.5	45.1	47.3	48.4	43.2	28.8	6.5						
	25000	16.4	30.4	28.1	33.1	36.8	38.5	39.4	39.6	33.8	18.7							
	31500	2.7	19.9	17.8	23.6	27.1	29.8	28.1	26.2	17.6								
	40000		3.3		6.6	9.6	11.5	10.4	5.4									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.9	65.5	67.1	69.1	70.7	71.8	73.0	73.4	72.6	69.8	66.8						
PNDB		73.4	75.8	78.0	81.2	83.1	84.1	85.4	85.6	85.7	79.9	72.9						

PAGE 1 FULL SCALE DATA PROCESSING PROGRAM PROC. DATE - MONTH 12 DAY 16 HR. 14.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. 180.	0. 180.	0. 180.	0. 180.	0. 180.	0. 180.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(3. M)	100	71.0	73.1	74.4	73.9	74.6	74.4	74.6	75.6	79.1	84.2	88.8							113.5
VEHICLE B-55	125	77.3	77.6	76.4	76.4	78.4	79.1	79.9	80.9	81.8	83.7	87.6							114.8
CONFIG 25	160	75.5	76.1	76.1	76.4	77.4	76.9	78.9	80.6	82.4	84.7	87.6							114.6
LOC SCHENECTADY	200	74.5	74.6	75.1	76.1	77.9	79.9	80.3	82.6	83.6	86.2	89.6							115.8
DATE 12/13/74	250	80.0	79.6	81.8	82.5	83.1	84.3	85.3	86.8	86.4	87.9	89.3							119.1
RUN 39/5	315	79.8	79.9	80.6	80.9	81.1	81.9	81.8	82.9	83.6	85.4	87.5							118.7
TAPE	400	78.3	78.3	78.6	79.1	79.4	79.9	81.1	82.6	82.6	84.7	86.8							115.6
BAR 29.9 HG	500	76.1	76.3	77.1	77.9	78.6	80.1	81.6	82.9	83.4	84.2	85.1							115.2
(101000. N/M2)	630	77.3	77.5	78.6	79.5	80.9	82.7	84.1	85.4	84.6	84.7	85.1							116.8
TAMB 49. DEG F	800	82.1	80.6	82.6	81.4	82.6	83.7	85.1	85.4	85.0	85.5	86.1							118.1
(283. DEG K)	1000	77.6	77.3	78.3	79.4	80.7	82.2	83.3	85.1	85.1	84.2	83.3							116.5
T-CT 45. DEG F	1250	74.9	75.8	77.1	79.4	80.4	82.2	83.6	85.1	85.1	84.0	82.8							116.3
(280. DEG K)	1600	74.4	75.4	76.8	78.2	79.5	80.9	81.3	82.8	83.4	81.8	81.1							114.5
HACT 0.67 GM/M3	2000	74.6	75.4	76.6	78.4	80.5	82.4	81.6	81.1	83.4	81.5	80.3							114.7
(0.00067 KG/M3)	2500	73.8	74.9	76.3	78.3	79.7	79.7	79.5	80.3	81.1	79.8	79.0							113.2
NFA 7865. RPM	3150	73.1	74.1	75.8	77.3	79.2	80.4	80.5	81.5	82.6	79.2	77.8							113.5
(823. RAD/SEC)	4000	74.3	76.6	78.0	81.3	83.4	84.1	86.7	87.9	90.8	84.9	80.7							119.4
NFK 7942. RPM	5000	73.0	76.5	77.1	79.5	81.4	83.1	87.3	88.3	89.5	84.4	80.4							118.9
(832. RAD/SEC)	6300	73.5	78.1	76.6	79.9	81.8	84.6	87.6	90.1	89.2	84.1	79.7							119.3
NFD 8923. RPM	8000	73.2	79.0	76.9	79.6	82.2	84.9	87.8	90.1	92.3	86.5	81.0							120.8
(934. RAD/SEC)	10000	73.9	79.8	77.4	80.9	83.2	86.9	88.8	91.1	91.2	85.2	80.7							121.1
NO. OF BLADES 15	12500	75.4	81.2	77.7	80.6	83.4	85.1	88.7	90.6	90.6	85.6	80.9							121.0
FAN TIP SPEED	16000	73.1	79.4	75.1	77.5	81.5	83.3	86.5	89.1	88.8	82.6	78.8							119.5
667. FT/SEC	20000	72.4	78.2	75.7	78.4	81.8	83.9	86.9	90.8	90.5	83.9	79.5							120.8
	25000	74.2	80.1	76.1	78.9	81.7	83.7	87.8	89.7	90.3	83.6	79.2							121.3
	31500	73.2	76.2	76.1	79.7	82.6	84.3	85.9	88.4	88.1	81.6	77.8							121.1
	40000	73.9	74.8	75.7	77.9	80.2	81.8	84.2	85.5	85.1	80.3	73.3							120.1
	50000	76.5	75.6	77.3	77.1	77.9	80.8	81.5	81.3	81.1	77.9	72.8							119.3
	63000	79.2	76.8	78.8	77.5	77.2	78.1	78.5	77.4	76.8	76.8	73.9							120.6
	80000	83.9	79.4	82.4	79.5	79.8	80.2	80.2	79.5	77.9	78.8	77.3							127.2
OVERALL MEASURED																			
OVERALL CALCULATED		91.7	92.6	92.8	94.0	95.6	97.2	99.4	101.2	101.8	98.7	98.7							134.1
	PROP	100.3	102.2	102.9	105.2	106.9	108.1	110.1	111.5	113.0	109.5	107.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(88.88 M)	100	47.3	50.3	52.3	52.2	53.8	52.6	52.4	52.6	54.7	57.7	58.8						
VEHICLE CROSS	125	53.5	54.8	54.2	54.6	56.7	57.3	57.8	57.7	57.4	57.8	57.3						
CONFIG 25	160	51.6	53.2	53.8	54.8	55.6	55.8	56.5	57.4	57.8	57.9	57.1						
LOC SCHENECTADY	200	50.5	51.6	52.8	54.2	56.1	57.9	57.9	59.3	58.9	58.2	56.1						
DATE 12/13/74	250	55.9	56.5	59.4	60.8	61.2	62.3	62.8	63.4	61.5	60.0	58.4						
RUN 39/5	315	55.6	56.6	58.1	58.8	59.1	59.7	59.2	59.3	58.7	58.2	56.5						
TAPE	400	54.8	55.8	56.8	58.9	57.3	57.7	58.4	59.0	57.5	57.3	55.2						
BAR 29.9 HG	500	51.7	53.4	54.4	55.6	56.5	57.0	58.8	59.1	58.2	58.0	53.5						
(101000. N/M2)	630	52.8	54.3	55.8	57.3	58.7	60.2	61.2	61.5	59.3	57.8	53.2						
TAMB 49. DEG F	800	57.4	57.8	59.7	59.9	60.3	61.1	62.0	61.4	60.4	57.5	53.9						
(283. DEG K)	1000	52.8	53.6	55.3	56.8	58.4	59.5	60.1	61.0	59.4	56.8	56.8						
THET 45. DEG	1250	49.9	51.7	53.9	54.7	57.8	59.4	60.2	60.8	58.3	55.6	50.8						
(280. DEG K)	1600	49.2	51.3	53.5	55.3	56.7	58.8	57.8	58.1	57.3	53.8	47.8						
MACT 0.87 GM/M3	2000	48.2	51.1	53.8	55.7	57.5	59.3	57.9	56.4	57.8	52.4	46.4						
(0.0007 G/CC)	2500	47.9	50.4	52.8	55.1	56.6	56.4	55.6	55.4	54.5	50.2	22.8						
NFA 7005. RPM	3150	47.1	49.3	51.8	53.8	55.8	56.8	56.3	56.3	55.6	49.4	42.8						
(823. RAD/SEC)	4000	47.7	51.5	53.5	57.3	59.6	60.1	62.8	62.2	63.2	56.3	44.7						
NFK 7042. RPM	5000	46.1	51.0	52.4	55.3	57.4	58.8	62.5	62.3	61.6	53.4	43.7						
(838. RAD/SEC)	6300	45.3	51.7	51.1	54.9	57.0	59.6	61.9	63.3	60.3	51.6	41.2						
NFB 8823. RPM	8000	44.8	51.4	50.3	53.6	56.3	58.9	61.8	61.9	61.0	52.3	39.7						
(924. RAD/SEC)	10000	42.9	50.5	48.2	53.3	55.9	58.4	60.4	61.1	58.6	48.4	36.5						
NO. OF BLADES 15	12500	41.5	49.4	47.2	50.9	53.6	55.3	57.9	58.8	55.0	44.8	29.9						
FAN TIP SPEED	16000	34.6	43.4	40.7	44.1	48.4	49.8	51.8	52.2	48.2	35.4	18.4						
887. FT/SEC	20000	27.6	36.8	36.3	40.2	43.7	45.5	47.1	47.4	43.1	28.1	8.7						
	25000	20.9	30.6	29.4	33.8	37.0	38.5	39.9	39.1	33.5	15.8							
	31500	7.2	15.8	19.8	24.6	28.1	29.0	28.1	28.9	17.3								
	40000			2.9	7.8	10.9	11.4	10.4	9.3									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		65.8	66.6	68.1	69.6	71.8	72.2	73.2	73.8	72.6	68.4	67.8						
	PNL	74.2	77.1	78.8	81.5	83.3	84.3	85.6	86.8	88.7	79.5	78.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 16 HR. 14.0

MODEL SOUND PRESSURE LEVELS (50. DEC, F= 70 PERCENT REL. HUM, DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
30																		
63																		
RADIAL 17. FT. 80																		
(5. HZ) 100	73.5	75.6	79.9	82.4	82.9	81.2	78.4	73.2	78.5	79.3	76.9							113.3
VEHICLE RPMS 125	66.3	67.4	70.4	68.9	72.6	68.4	68.6	69.9	70.5	73.1	73.8							104.7
CONFIG 28 160	65.3	66.1	66.4	66.7	67.4	66.9	68.4	69.9	71.2	73.6	75.6							103.7
LOC SCHENECTADY 200	65.5	65.9	67.4	66.7	68.6	69.9	70.9	72.6	73.8	75.8	77.3							108.6
DATE 12/13/74 250	68.5	68.9	70.1	70.6	71.4	71.4	72.1	72.6	73.2	74.6	75.6							108.1
RUN 39/6 315	69.3	70.1	70.6	71.2	71.4	71.4	71.6	72.1	72.5	74.1	74.6							108.9
TAPE 400	67.8	68.9	69.9	69.7	69.6	70.4	71.4	71.9	72.5	74.3	74.6							105.3
BAR 29.9 HG 500	66.1	67.4	67.4	68.4	68.9	70.2	71.4	73.4	73.5	74.1	73.6							103.2
(81000. N/M2) 630	68.9	69.4	70.4	71.7	72.9	74.2	76.4	76.9	76.5	76.8	76.9							108.5
TAMB 40. DEG F 800	72.9	71.6	73.4	72.2	74.4	74.9	76.6	77.1	77.2	77.8	75.4							109.4
(283. DEG K) 1000	68.1	68.8	69.1	70.9	73.4	74.9	76.8	78.4	74.2	78.6	73.6							109.3
THET 45. DEG F 1250	69.9	70.2	74.4	77.7	77.7	79.5	81.0	84.1	83.5	84.6	77.6							114.7
(280. DEG K) 1600	66.9	67.2	70.1	73.5	74.2	76.8	77.8	79.4	78.6	80.1	74.1							110.4
MACT 0.67 GM/M3 2000	62.9	64.2	65.6	66.6	68.8	68.5	69.8	70.1	70.7	71.4	68.3							102.7
(.00067 KG/M3) 2500	64.1	65.2	66.2	66.8	70.5	71.5	71.5	72.3	74.2	72.4	68.3							104.8
NFA 5312. RPM 3150	62.9	63.2	64.8	66.9	69.2	71.8	72.2	73.6	76.8	74.9	68.8							105.5
(577. RAD/SEC) 4000	65.1	66.4	67.8	70.3	73.8	73.9	76.2	78.8	80.9	80.8	73.5							110.3
NFK 5566. RPM 5600	64.8	65.4	66.9	69.5	71.9	73.6	77.1	80.6	80.6	79.8	73.4							110.4
(583. RAD/SEC) 6300	63.8	65.2	66.8	68.9	71.3	74.1	77.3	79.7	81.1	78.7	72.3							110.2
NFD 6923. RPM 8000	63.7	65.6	66.4	69.4	71.4	74.5	77.1	79.9	81.7	80.1	73.5							110.8
(824. RAD/SEC) 10000	64.0	65.3	66.9	69.2	71.5	74.3	77.8	84.1	82.8	78.6	72.2							110.9
NO. OF BLADES 15 12500	63.4	64.8	67.0	69.4	72.1	74.2	77.4	79.7	81.7	78.0	72.1							110.8
FAN TIP SPEED 16000	61.9	65.7	64.3	67.6	70.3	73.1	75.7	78.7	80.4	76.3	70.8							109.8
481. FT/SEC 20000	62.7	67.6	64.5	66.5	71.1	74.2	77.1	79.5	81.3	76.8	71.3							111.2
25000	65.8	67.4	64.9	67.5	70.7	73.8	75.8	78.6	78.6	74.5	68.5							109.8
31500	63.5	67.5	64.4	68.3	70.6	73.4	75.4	77.8	77.9	74.8	68.8							110.4
40000	64.2	64.8	64.5	66.8	67.9	70.4	72.2	74.8	74.7	71.7	65.9							108.9
50000	66.6	65.9	66.9	66.9	67.8	68.3	69.7	69.8	70.5	68.5	63.3							108.4
63000	69.5	66.6	69.4	67.8	67.5	66.4	66.3	67.2	66.9	66.4	64.9							110.8
80000	73.9	69.4	72.4	69.6	69.8	70.3	70.2	69.5	68.8	68.6	67.4							117.3
OVERALL MEASURED																		
OVERALL CALCULATED	82.6	83.8	85.8	86.8	87.9	88.4	90.2	92.8	92.8	91.9	82.1							120.9
PNDB	81.1	82.1	83.4	85.7	87.6	88.4	100.7	103.8	103.9	103.8	88.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 16 HR. 14.0

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AFT HARDWALL)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.77)	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.	0. 110.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	49.9	52.9	57.8	60.7	61.3	59.4	56.2	50.1	46.8	46.8	46.8						
VEHICLE R-55	125	42.5	44.6	48.2	47.1	51.0	48.6	48.3	48.8	45.9	46.4	45.4						
CONFIG 25	160	41.4	43.2	44.2	44.8	45.6	45.0	46.0	46.7	44.6	46.8	45.1						
LOC SCHENECTADY	200	41.6	42.9	45.1	44.7	46.8	47.9	48.8	49.3	48.2	48.9	46.7						
DATE 12/13/76	250	44.5	45.6	47.7	48.6	49.5	49.3	49.6	49.2	48.3	47.5	44.7						
RUN 3	315	45.1	47.2	48.1	49.1	49.4	49.3	49.8	48.8	47.5	46.8	43.9						
TAPE	400	43.5	45.6	46.3	47.5	47.8	48.2	48.8	48.3	47.4	46.9	43.3						
BAR 29.9 MB	500	41.7	44.8	44.7	46.2	46.7	47.9	48.5	49.7	48.2	46.5	42.8						
(101088. N/M2)	630	44.3	45.9	47.8	49.3	50.7	51.8	53.4	53.1	51.1	49.1	45.8						
TAMB 49. DEG F	800	43.2	43.9	50.5	49.7	52.8	52.4	53.5	53.2	51.7	49.9	49.2						
(283. DEG K)	1000	43.3	44.9	46.1	48.3	50.9	52.3	53.4	54.2	52.5	50.4	41.1						
THET 45. DEG F	1250	44.9	46.2	51.2	55.8	55.1	56.7	56.5	59.8	57.6	54.2	44.8						
(280. DEG K)	1600	41.7	43.1	48.8	50.6	51.4	53.8	54.3	54.9	52.9	51.4	49.8						
HABS 0.67 GM/M3	2000	37.5	39.8	42.1	43.5	45.8	45.3	46.1	45.4	44.4	42.3	34.8						
(0.00647 KG/M3)	2500	38.5	40.7	42.6	45.3	47.4	48.2	47.7	47.4	47.4	43.8	34.1						
NFA 9512. RPM	3150	36.9	38.4	40.8	43.3	45.8	47.4	48.1	48.3	49.8	45.8	33.9						
(577. RAD/SEC)	4000	38.5	41.1	42.5	46.4	49.1	49.8	51.5	53.2	53.3	50.2	37.5						
NFK 9500. RPM	5000	37.9	39.8	42.2	45.3	47.9	49.4	52.2	54.6	52.7	49.8	39.8						
(595. RAD/SEC)	6300	36.1	38.5	41.2	44.8	46.8	49.1	51.7	52.8	52.2	48.4	34.8						
NFB 8523. RPM	8000	34.5	37.9	39.8	43.4	45.6	48.4	50.3	51.7	51.2	48.9	32.3						
(824. RAD/SEC)	10000	32.9	36.5	38.7	41.6	44.1	46.7	48.4	50.2	49.5	41.7	27.8						
NO. OF BLADES 15	12500	31.5	34.9	36.5	39.7	42.6	44.3	46.6	47.1	46.1	37.2	21.2						
FAN TIP SPEED	16000	23.4	29.7	30.8	34.2	37.1	39.6	41.0	41.6	38.7	28.8	10.4						
481. FT/SEC	20000	10.8	20.1	25.1	30.2	33.2	35.8	37.3	36.9	34.8	21.8							
	25000	11.6	16.2	18.3	22.4	28.8	27.8	27.9	26.1	21.8	6.7							
	31500		6.9	7.3	13.1	18.1	16.8	17.6	14.4	7.1								
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		56.5	58.3	61.6	63.9	64.9	64.8	65.3	65.7	64.2	62.1	55.7						
	PNDB	64.7	66.9	69.8	71.9	74.8	74.9	76.2	77.3	76.5	73.6	63.4						

PAGE 1 FULL SCALE DATA SPECTRUM PROGRAM

MODEL SOUND PRESSURE LEVELS 150. DEG. FO 70 PERCENT DEL. NOM. DAY

ANGLES FROM INLET IN DEGREES (ARC DISTANCE)

	FREQ.	21.	41.	91.	101.	111.	121.	131.	141.	151.	0.	0.	0.	0.	0.	0.	0.	0.	0.	PWL
		(1.22)	(1.63)	(1.63)	(1.74)	(1.74)	(2.11)	(2.39)	(2.52)	(2.53)	110.	110.	110.	110.	110.	110.	110.	110.	110.	
	63																			
RADIAL 17. FT.	69																			
1 S. RI	125	71.6	69.2	62.1	66.7	76.1	72.6	76.7	74.8	79.1										112.7
VEHICLE ABS	125	71.6	67.7	71.9	69.2	67.6	76.9	71.8	73.6	75.1										109.3
CONFIG 28	150	66.1	66.7	67.2	64.7	68.1	70.7	71.2	73.1	74.4										103.1
LOC SCHENECTADY	200	66.1	67.2	64.6	70.1	73.6	72.9	73.8	75.3	76.9										105.2
DATE 12/12/74	250	69.6	68.8	70.4	70.9	72.1	73.1	72.7	74.6	75.1										103.5
RUN 38/4	315	70.1	71.2	70.9	71.2	71.1	73.4	72.2	73.8	73.8										105.2
TAPE	400	65.6	68.7	68.1	70.2	72.6	72.8	72.2	73.8	74.1										104.7
BAR 29.7 MB	500	66.4	68.2	68.4	69.9	71.1	73.9	73.8	74.6	73.1										104.8
100000. N/M2)	630	69.1	70.4	71.7	73.2	74.9	76.7	75.2	75.6	73.6										107.3
TAPB 40. DEG F	800	72.1	71.2	72.9	73.7	74.4	75.4	76.8	76.1	75.1										107.7
1282. DEG R)	1000	67.4	68.2	68.3	71.7	73.3	75.1	76.2	76.3	72.1										106.5
TMET 40. DEG F	1250	68.1	70.2	70.7	72.2	73.3	74.4	75.8	80.1	74.1										109.1
1282. DEG R)	1600	64.9	67.8	68.8	69.7	73.4	73.6	73.2	75.1	69.6										104.5
MACT 2.5 GM/M3	2000	64.1	65.6	66.7	67.2	69.3	66.9	66.2	66.1	62.3										101.8
1.00756 KG/M3)	2500	64.6	67.3	67.2	70.2	70.8	69.7	70.9	70.5	67.4										102.6
NFA 5474. RPM	3150	67.6	64.8	68.8	69.7	70.7	69.3	70.4	70.1	65.8										102.2
573. RAD/SEC)	4000	64.8	64.6	69.2	71.9	73.9	77.3	76.1	73.8	68.7										106.9
NFK 5533. RPM	5000	63.4	65.8	66.4	71.1	74.1	76.1	76.6	75.5	69.6										106.5
579. RAD/SEC)	6300	66.1	69.1	71.5	73.1	75.1	80.2	80.8	78.4	73.7										110.3
NFD 6823. RPM	8000	69.1	73.1	75.9	78.9	81.1	81.8	83.1	80.5	74.9										113.1
715. RAD/SEC)	10000	72.4	77.3	82.2	86.8	87.3	92.4	88.7	86.1	82.1										120.4
NO. OF BLADES 19	12500	77.4	83.4	87.8	89.1	93.1	97.1	96.8	93.4	78.8										120.3
FAN TIP SPEED	16000	69.5	75.8	79.2	80.2	82.3	83.9	83.8	79.9	74.2										115.8
478. FT/SEC	20000	66.3	71.1	74.7	78.3	80.5	82.4	83.7	79.8	73.1										114.8
	25000	65.6	66.8	71.2	73.3	75.9	78.3	79.2	76.1	69.3										110.4
	31500	64.4	67.7	70.9	73.6	75.2	77.5	78.4	74.5	67.4										110.0
	40000	63.9	65.9	67.9	70.5	72.9	74.5	75.4	72.1	63.6										109.2
	50000	66.6	67.6	67.2	69.9	73.2	73.9	71.2	69.5	63.4										108.4
	63000	66.9	68.5	67.7	70.1	68.9	68.5	67.4	67.6	64.4										110.8
	80000	72.5	69.6	69.6	70.3	76.3	69.8	68.8	68.8	67.4										110.1
OVERALL MEASURED																				
OVERALL CALCULATED		67.8	68.6	84.3	87.2	88.5	85.4	84.3	82.2	80.8										120.1
		96.8	99.1	102.5	105.8	106.8	104.4	102.8	101.7	98.3										

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REPROCESSING PROGRAM PROG. DATE = MONTH 12 DAY 17 HR. 10.0

MODEL SOUND PRESSURE LEVELS (DB, REF. P= 20 MICRONEWTONS/SQ. M/M, 1/3 OCTAVE BANDS)

	FREQ.	21.	31.	41.	51.	61.	81.	101.	121.	141.	161.	181.	201.	221.	241.	261.	281.	301.
		1.26	1.61	2.01	2.51	3.16	4.02	5.04	6.31	7.92	9.92	12.4	15.5	19.5	24.4	30.6	38.3	48.0
	30																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	57.3	63.5	69.5	54.9	59.9	49.9	46.3	48.3	47.6								
VEHICLE SPEED	125	62.5	65.9	58.2	46.2	45.3	47.1	46.4	45.9	44.9								
CYCLE 25	160	63.9	64.8	65.8	44.8	45.7	47.4	44.2	46.3	43.9								
LOC SCHEDULE:	200	63.8	65.2	66.9	48.2	48.2	49.6	48.2	49.4	46.2								
DATE 12/12/74	250	67.2	67.6	68.5	47.8	49.6	49.7	47.8	47.8	44.2								
RUN 36/4	315	67.6	68.1	68.9	49.8	49.5	48.9	47.2	46.6	47.4								
TAPE	400	66.3	67.5	67.1	47.9	47.7	49.8	47.1	48.4	49.8								
BAR 29.7 IN	500	63.7	65.9	66.2	47.6	48.3	50.2	47.7	47.8	41.5								
(SEA LEVEL)	630	66.4	68.1	69.4	50.8	51.9	52.9	49.9	47.8	41.4								
TAMB 48. DEG F	800	69.2	68.7	68.5	51.2	51.5	51.4	50.4	48.1	43.8								
(29.2. DEG C)	1000	64.3	65.8	67.4	49.8	53.2	51.8	50.5	47.2	38.6								
TWET 46. DEG F	1250	65.8	67.5	68.1	49.4	52.8	54.1	53.1	51.7	41.3								
(29. DEG C)	1600	61.5	64.1	65.2	46.5	47.3	49.1	47.1	46.4	38.6								
HUMCT 7.5 GM/M3	2000	60.8	62.3	63.8	44.1	44.6	43.9	41.8	41.1	33.6								
(.0029 LB/LB)	2500	60.9	62.1	62.1	44.6	46.1	44.7	43.3	41.3	33.4								
HFA 9474. RPM	3150	59.5	61.3	64.6	46.1	46.6	44.8	43.4	46.3	36.9								
(573. REL/SEC)	4000	57.5	62.6	65.4	47.9	51.3	51.2	48.5	43.2	32.7								
HFK 5533. RPM	5000	56.2	61.6	64.3	47.1	49.2	50.1	48.6	44.5	33.8								
(970. REL/SEC)	6300	63.6	66.2	66.7	49.1	52.6	53.3	51.9	48.2	32.2								
HFB 8823. RPM	8000	62.3	67.1	68.1	52.9	54.3	53.7	52.7	46.4	32.7								
(926. REL/SEC)	10000	54.6	59.4	64.8	48.2	48.9	48.1	46.2	43.2	30.8								
NO. OF BLADES 15	12500	46.9	53.6	57.5	54.7	59.3	54.5	51.2	47.6	27.6								
FAN TIP SPEED	16000	50.1	61.5	66.8	44.7	47.7	46.6	43.1	38.8	13.8								
476. FT/SEC	20000	37.8	52.4	56.8	50.9	43.7	39.8	36.3	23.8	0.4								
	25000	18.4	22.9	26.8	24.8	23.7	27.7	22.3	8.2									
	31500	7.3	12.6	16.3	14.2	17.3	15.8	7.6										
	40000				8.1													
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.7	64.9	67.7	55.9	58.3	56.2	53.2	56.3	54.9								
MEAS		70.1	73.6	76.9	70.4	68.1	70.9	74.1	78.3	61.2								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 12 DAY 17 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	127. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. 0. 0. 0. 0. 0. 0. 0. 0.	PWL
	50											
	63											
RADIAL 17. FT.	80											
(5. M)	100	74.1	71.7	69.4	69.7	71.6	71.7	73.0	76.8	79.4		166.9
VEHICLE RUN5	125	72.6	70.7	72.6	70.4	71.1	73.2	74.5	76.3	79.4		167.1
CONFIG 2C	160	69.4	69.9	70.1	69.7	71.9	73.2	75.0	77.8	79.9		167.1
LOC SCHENECTADY	200	69.9	70.2	71.6	73.4	74.1	76.1	77.0	79.6	81.3		169.0
DATE 12/12/74	250	72.9	73.1	73.9	74.4	75.1	76.1	76.5	78.3	79.4		169.0
RUN 38/5	315	73.4	74.7	74.6	74.7	74.8	75.4	76.2	78.3	79.3		169.1
TAPE	400	71.4	71.9	72.1	73.2	73.9	74.6	75.5	77.8	78.1		167.8
BAR 29.7 HG	500	69.6	70.4	71.4	72.9	74.4	75.4	76.2	77.6	77.1		167.7
(.002 KG/M2)	630	70.1	72.9	74.7	75.9	77.6	78.7	78.2	76.8	77.4		170.1
TAMB 48. DEG F	800	73.4	73.2	75.1	75.9	76.8	77.4	78.0	78.6	77.4		169.8
(282. DEG K)	1000	69.4	71.2	72.6	73.6	75.6	77.4	78.8	78.3	75.3		168.8
TRET 45. DEG F	1250	66.4	70.5	71.4	73.2	75.3	76.4	77.5	78.4	74.9		166.2
(280. DEG K)	1600	69.1	72.0	74.2	75.2	76.3	78.4	79.7	80.1	74.9		170.8
HACT 6.97 GM/M3	2000	66.9	69.1	70.5	70.7	72.1	72.4	73.5	74.4	71.6		165.8
(.00697 KG/M3)	2500	67.8	70.6	72.2	73.2	72.3	71.3	73.0	73.1	70.8		165.3
NFA 6282. RPM	3150	68.1	70.4	73.0	75.7	74.5	73.4	75.7	75.6	72.0		167.3
(658. RAD/SEC)	4000	66.7	69.3	71.9	74.2	77.2	77.2	78.1	74.6	71.2		168.3
NFK 6329. RPM	5000	66.4	69.5	71.9	75.4	79.6	79.6	79.4	77.8	72.9		170.3
(663. RAD/SEC)	6300	69.1	71.6	74.5	77.5	80.1	82.7	83.5	80.4	76.5		172.9
NFB 6823. RPM	8000	70.9	74.4	76.7	80.2	82.3	84.9	85.6	81.9	78.8		175.1
(926. RAD/SEC)	10000	80.9	87.4	92.0	95.5	91.3	86.6	92.5	85.8	81.9		184.8
NO. OF BLADES 15	12500	84.2	90.4	94.1	96.4	92.4	91.1	92.9	86.9	82.6		182.4
FAN TIP SPEED	16000	74.8	81.3	84.2	85.5	86.7	88.1	88.1	82.7	77.8		179.5
547. FT/SEC	20000	71.0	77.4	79.8	82.6	84.8	86.9	89.2	82.9	77.0		178.8
	25000	69.6	73.1	76.3	79.7	81.2	83.7	85.0	79.7	73.6		175.8
	31500	67.0	71.9	74.8	77.5	79.3	81.6	82.5	77.7	70.7		174.6
	40000	65.8	69.1	72.0	75.0	76.8	78.9	79.3	75.5	66.2		173.2
	50000	67.3	67.9	68.9	72.0	74.2	74.6	74.9	72.2	64.6		171.6
	63000	66.6	68.2	68.1	70.8	70.8	69.9	69.4	68.6	64.6		171.2
	80000	72.4	69.8	69.7	70.3	70.2	69.5	67.9	68.6	67.4		176.1
OVERALL MEASURED												
OVERALL CALCULATED		68.5	93.4	97.0	99.7	97.0	96.9	98.6	94.5	91.9		180.9
	PNDB	96.4	100.3	103.5	106.2	104.7	104.1	106.3	103.6	100.5		

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PREC. DATE - MONTH 12 DAY 17 HR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	21. (1.24)	61. (1.48)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(80.96 M)	100	52.1	50.3	47.8	47.9	47.4	48.8	48.5	50.3	49.3								
VEHICLE R-55	125	50.5	48.9	51.0	48.6	48.8	50.0	49.9	49.7	49.1								
CELSIG 26	160	47.2	49.1	48.4	47.8	49.5	49.9	50.3	51.0	49.4								
LCC SCHEDFCTRY	200	49.8	49.2	49.4	51.4	51.7	47.9	52.2	52.0	50.7								
DATE 12/12/74	250	50.5	51.1	52.0	52.3	52.6	52.7	51.6	51.2	48.7								
RUN 38/5	315	50.9	52.5	52.7	52.5	52.2	51.9	51.2	51.1	48.3								
TAPE	400	48.8	49.7	50.1	50.9	51.1	51.0	50.4	50.4	48.8								
BAR 29.7 HG	500	47.0	48.2	49.2	50.8	51.5	51.7	51.0	50.0	45.5								
(100.6 KPA)	630	49.4	50.6	52.4	53.5	54.7	54.8	52.9	51.1	45.5								
TAMB 40. DEG F	800	50.5	50.7	52.8	53.4	53.8	53.7	52.4	50.6	45.2								
(282. DEG K)	1000	46.3	48.6	50.2	51.3	52.4	53.2	52.0	50.2	42.9								
THET 45. DEG F	1250	45.2	47.8	48.8	50.4	52.0	52.1	51.6	49.9	42.0								
(280. DEG K)	1600	45.8	49.1	51.4	52.3	52.8	53.9	53.6	51.4	41.6								
HACT 6.97 GM/M3	2000	43.3	46.0	47.5	47.6	48.4	47.6	47.1	45.3	37.8								
(0.00997 LB/M3)	2500	44.1	47.3	49.1	49.3	49.6	48.4	48.4	43.8	36.6								
NFA 6282. RPM	3150	44.0	46.8	49.6	52.1	50.3	48.5	48.7	45.8	37.1								
(658. RAD/SEC)	4000	42.3	45.4	48.1	50.1	52.5	51.5	50.5	44.0	35.2								
NFK 6329. RPM	5000	41.7	45.3	47.9	51.1	54.7	53.6	51.9	46.7	36.3								
(663. RAD/SEC)	6300	43.7	46.7	49.8	52.9	54.4	55.8	54.8	48.2	38.8								
NFB 6823. RPM	8000	44.3	48.3	50.8	54.1	55.5	56.7	55.2	47.7	34.7								
(924. RAD/SEC)	10000	52.7	50.9	54.6	57.9	62.7	58.6	59.9	49.6	36.7								
NO. OF BLADES 15	12500	53.7	50.6	54.5	56.5	61.6	58.6	57.3	46.1	31.7								
FAN TIP SPEED	16000	49.4	47.9	51.1	52.0	52.0	51.2	47.4	35.4	17.4								
547. FT/SEC	20000	31.6	39.2	41.9	44.3	45.0	44.4	41.9	27.2	4.2								
	25000	22.3	28.6	31.7	34.4	34.8	33.1	28.2	11.8									
	31500	9.9	16.7	20.2	22.1	21.5	19.1	11.8										
	40000			2.7	4.6	3.1												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.1	65.7	69.0	71.4	68.5	67.2	66.6	63.0	50.8								
	PNLP	78.9	75.0	78.1	80.5	78.7	78.0	77.2	72.9	65.1								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PREC. DATE - MONTH 12 DAY 17 HR. 19.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	71. (1.24)	91. (1.59)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.7	70.7	71.1	71.4	70.9	72.4	75.7	80.6	84.1									100.4
VEHICLE ROSS	125	78.9	76.2	75.6	73.9	74.6	77.2	78.5	80.8	84.1									111.6
CONFIG 26	160	71.9	73.2	73.1	72.9	74.6	76.9	78.7	81.8	83.4									110.7
LOC SCHENECTADY	200	72.1	72.3	74.1	76.6	77.1	79.1	80.0	83.3	85.1									112.3
DATE 12/12/74	250	75.4	76.4	76.9	77.4	76.5	79.9	79.7	82.6	83.6									112.6
RUN 3A/6	315	76.9	77.7	77.9	77.9	78.3	79.1	80.0	81.6	83.1									112.6
TAPE	400	74.7	75.9	75.9	75.9	77.4	78.6	79.5	81.6	82.6									111.7
BAR 29.7 HG	500	72.4	73.9	74.4	74.9	77.4	78.9	80.0	80.8	81.1									111.1
(100.68. K/M2)	630	74.4	75.4	77.2	78.9	80.4	81.2	81.2	81.8	80.9									112.9
TAMB 47. DEG F	800	75.9	75.9	77.9	78.9	79.8	80.9	81.0	81.6	80.6									112.8
(281. DEG K)	1000	72.4	74.2	75.4	76.7	78.3	79.9	81.0	80.8	79.3									111.5
TAIT 44. DEG F	1250	71.9	73.5	74.9	76.5	77.8	79.6	80.2	80.9	78.6									111.1
(280. DEG K)	1600	72.4	74.3	75.9	78.2	77.8	79.6	80.7	81.1	77.4									111.2
WACT 6.69 GM/M3	2000	71.6	73.1	74.2	75.9	77.1	78.1	79.0	79.8	76.1									110.0
(.00669 KG/M3)	2500	71.4	74.1	75.7	76.2	75.3	75.3	77.2	76.6	75.6									108.9
NFA 7043. RPM	3150	71.1	73.6	75.2	77.2	77.0	77.3	78.2	76.4	73.8									109.6
(737. RAD/SEC)	4000	70.5	73.3	75.4	77.7	79.7	80.2	81.4	77.1	74.5									111.6
NFK 7126. RPM	5000	69.9	72.8	75.2	78.1	80.8	81.9	82.1	79.8	75.6									112.4
(746. RAD/SEC)	6300	71.6	74.9	76.5	80.3	83.1	84.9	86.3	82.4	78.7									115.8
NFD 8023. RPM	8000	73.1	77.1	79.4	82.7	85.1	87.4	88.6	84.6	78.8									117.8
(924. RAD/SEC)	10000	76.4	80.9	83.7	85.8	86.3	88.9	89.5	85.1	79.2									119.6
NO. OF BLADES 15	12500	85.0	90.2	94.6	96.7	91.9	93.2	91.7	87.5	83.4									126.7
FAN TIP SPEED	16000	79.1	83.6	86.8	88.5	89.7	90.9	89.9	84.7	80.5									122.1
615. FT/SEC	20000	76.2	81.4	84.1	86.2	88.3	91.5	91.8	86.0	79.7									122.3
	25000	72.7	77.9	81.1	83.5	85.7	88.7	89.3	84.2	77.7									120.3
	31500	70.6	75.7	79.6	81.5	83.8	86.4	86.3	81.9	74.2									118.9
	40000	69.6	72.6	75.8	78.8	81.5	82.7	83.6	78.8	69.8									117.3
	50000	68.3	70.5	72.6	74.9	77.9	78.2	78.4	75.4	66.0									115.0
	63000	69.3	68.9	69.1	71.5	72.6	72.3	72.0	70.8	64.8									113.9
	80000	72.2	69.6	69.6	70.1	70.1	69.9	68.8	68.4	67.2									110.1
OVERALL MEASURED																			
OVERALL CALCULATED		90.0	93.9	96.9	98.9	97.9	99.7	99.7	96.8	95.0									131.9
PNLF		97.6	99.7	101.4	103.4	105.2	106.7	107.8	106.8	103.6									

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 17 HR. 19.6

HOTEL SOUND PRESSURE LEVELS (REF. P= 20 MICRO NEWTONS/M**2, 1/3 OCTAVE BAND)

ANGLES FROM INLET IN DEGREES (ARC RADIANS)

FREQ.	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	132. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.5	49.0	48.5	48.7	48.7	49.3	51.3	54.0	54.0								
125	54.7	54.4	54.0	52.1	52.3	54.0	53.9	54.2	53.9								
160	49.7	51.3	51.4	51.0	52.2	53.7	54.1	55.0	52.6								
200	49.8	51.0	52.3	54.7	54.7	55.9	55.2	56.4	54.4								
250	53.0	54.4	55.0	55.3	55.3	56.5	54.8	55.5	52.7								
315	54.4	55.6	55.9	55.8	55.7	55.6	55.0	54.3	52.0								
400	52.3	53.7	53.8	53.7	54.9	55.0	54.4	54.2	51.3								
500	49.7	51.7	52.2	53.6	54.5	55.2	54.7	53.3	49.5								
630	51.9	53.1	54.9	54.5	57.4	57.3	55.9	54.1	49.0								
800	53.0	53.5	55.5	56.2	56.8	56.9	55.4	53.6	48.5								
1000	49.3	51.6	52.9	54.0	55.2	55.7	55.3	52.7	46.6								
1250	48.7	50.8	52.3	53.7	54.5	55.3	54.3	52.4	45.8								
1600	49.3	51.4	52.2	53.3	54.3	55.1	54.6	52.4	44.1								
2000	48.1	50.0	51.3	52.3	53.4	53.4	52.6	50.6	42.3								
2500	47.6	50.8	52.6	52.9	51.4	50.4	50.8	47.3	41.4								
3150	47.1	50.1	51.8	53.6	52.8	52.0	51.2	46.5	38.9								
4000	45.0	49.4	51.8	53.7	56.0	54.5	53.8	46.5	38.5								
5000	45.2	48.6	51.1	53.9	56.0	55.9	54.1	48.7	39.0								
6300	45.2	50.0	51.8	55.4	57.4	56.1	57.4	50.2	38.3								
8000	46.5	51.1	53.6	56.6	58.3	59.2	58.2	50.4	37.5								
10000	48.2	53.4	56.4	58.2	57.9	56.9	57.0	48.2	34.0								
12500	54.4	61.2	65.1	66.8	61.1	60.6	56.0	46.6	32.4								
16000	43.7	50.1	53.6	55.3	55.0	54.0	49.2	37.5	20.2								
20000	36.8	43.2	46.2	47.8	48.5	48.9	44.4	30.2	7.0								
25000	26.3	32.8	36.5	38.2	38.6	38.1	32.5	16.4									
31500	13.5	20.5	24.0	26.2	26.0	23.9	15.6										
40000		2.5	6.5	8.4	7.9	2.5											
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.5	66.8	69.0	70.5	69.5	69.7	68.4	66.1	62.7								
PNDB	73.5	76.1	77.7	79.3	80.6	80.7	79.9	75.4	68.6								

SIDELINE 200. FT. (50.96 M)
VEHICLE ACSS
CONFIG 26
LOC SCHENECTADY
DATE 12/12/74
RUN 38/6
TAPE
BAR 29.7 MG
(1002. MB)
TAMB 47. DEG F
(281. DEG K)
TWET 44. DEG F
(280. DEG K)
HACT 6.09 GM/M3
(.00869 KG/M3)
NFA 7043. RPM
(737. RAD/SEC)
NFK 7120. RPM
(746. RAD/SEC)
NFC 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
815. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 12 DAY 17 HR. 19.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)																
	FREQ.	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. M)	100	74.1	73.4	74.4	74.6	75.1	75.6	78.9	82.5	88.1								112.8
VEHICLE RPSS	125	76.6	75.6	77.6	77.9	79.1	80.4	81.4	83.7	87.3								114.8
CONFIG 26	160	75.9	76.6	76.6	76.1	78.9	80.1	82.1	84.5	87.3								114.1
LOC SCHENECTADY	200	75.1	76.1	78.1	80.1	80.8	82.4	83.6	86.2	88.5								115.7
DATE 12/12/74	250	81.1	81.5	82.6	83.3	84.6	85.8	85.8	86.9	88.8								118.1
RUN 38/7	315	80.1	80.9	81.1	81.4	81.6	82.4	83.1	85.2	87.0								116.8
TAPE	400	78.3	79.1	79.4	79.9	80.6	82.1	82.9	84.5	86.4								115.1
PAF 29.7 MG	500	76.6	77.4	78.1	79.6	81.3	82.9	83.1	84.0	85.3								114.8
(.00268. G/M2)	630	77.9	79.1	80.4	81.4	83.3	84.1	84.4	84.5	84.8								115.9
TAMB 47. DEG F	800	81.8	80.9	82.6	82.2	84.1	84.6	84.9	84.5	85.6								116.9
(281. DEG K)	1000	77.1	77.3	79.1	79.9	81.3	83.1	83.9	83.2	83.1								114.7
TACT 44. DEG F	1250	75.6	77.2	77.9	79.7	80.6	83.1	82.9	82.2	82.8								114.1
(280. DEG K)	1600	75.3	76.2	77.2	78.7	79.8	81.1	81.6	81.2	80.8								112.8
HACT 6.09 GM/M3	2000	75.8	77.8	78.0	78.7	81.5	84.1	85.4	83.5	81.1								115.1
(.00669 KG/M3)	2500	75.3	77.3	78.7	78.7	78.5	79.0	81.6	79.5	76.5								112.3
NFA 7825. RPM	3150	73.8	76.3	78.0	79.9	78.5	78.3	81.1	78.7	77.5								111.7
(819. RAD/SEC)	4000	74.7	77.0	79.2	81.1	83.7	83.9	85.5	80.2	77.9								115.2
NFK 7917. RPM	5000	73.4	75.7	78.4	80.6	82.3	83.1	83.5	81.1	78.4								114.2
(829. RAD/SEC)	6300	75.1	77.9	80.0	82.3	85.6	86.6	89.0	83.3	79.4								116.8
NFD 8823. RPM	8000	76.3	79.3	81.9	85.4	87.3	91.1	91.3	85.2	80.7								120.5
(924. RAD/SEC)	10000	78.9	80.6	83.0	85.2	88.1	90.1	91.4	85.5	81.1								120.6
NO. OF BLADES 15	12500	80.9	85.6	88.8	90.1	91.4	93.4	93.6	87.1	82.8								124.1
FAN TIP SPEED	16000	80.8	84.3	88.5	89.6	91.2	93.4	91.6	86.1	82.5								123.9
683. FT/SEC	20000	80.4	84.4	84.1	90.6	92.1	94.9	93.9	87.6	83.0								125.6
	25000	78.1	82.4	85.6	87.4	90.4	93.0	93.0	86.3	81.4								124.4
	31500	76.3	80.7	83.1	85.5	87.8	90.4	90.2	84.3	78.2								122.8
	40000	75.3	78.3	80.3	82.7	85.1	86.6	87.3	81.5	74.0								121.5
	50000	76.2	77.5	77.8	80.6	82.1	82.7	82.5	76.8	73.0								119.7
	63000	73.4	77.6	77.3	78.9	78.9	78.6	78.0	76.4	74.0								120.2
	80000	82.2	79.3	79.6	80.1	80.1	79.3	77.7	77.8	77.2								120.8
OVERALL MEASURED																		
OVERALL CALCULATED		92.7	95.0	97.0	98.6	100.3	102.5	102.4	98.8	98.6								134.6
	PNDB	101.1	102.9	104.6	106.7	108.1	110.1	110.8	107.8	106.8								

PREC. DATE - MONTH 12 DAY 17 HR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		21. (1.84)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.11)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	FREQ.																	
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	59.0	51.7	52.8	52.9	52.9	52.8	54.5	56.9	58.0								
VEHICLE R=5	125	54.4	51.8	56.0	56.1	56.8	57.2	56.9	57.0	57.1								
CONFIG 25	160	53.8	54.8	54.9	54.2	56.5	56.9	57.5	57.6	56.9								
LOC SCHEMECTADY	200	52.8	54.2	56.3	58.1	58.4	59.0	58.9	58.2	57.9								
DATE 12/12/74	250	58.7	56.8	60.7	61.3	62.1	62.4	60.8	59.8	57.9								
RUN 38/7	315	57.6	58.8	59.1	59.2	59.0	58.8	58.2	57.9	56.8								
TAPE	400	55.8	56.9	57.3	57.7	57.9	58.5	57.8	57.0	55.2								
BAR 29.7 HG	500	53.9	55.1	56.0	57.3	58.5	59.1	57.9	56.4	53.7								
(982.8 M/P2)	630	53.1	56.8	58.2	58.0	60.4	60.3	59.0	56.7	53.0								
TAMB 47. DEG F	800	56.9	58.4	60.3	58.6	61.0	60.6	59.4	56.5	53.4								
(281. DEG K)	1000	54.1	55.3	56.7	57.3	58.1	59.0	58.2	55.0	50.8								
TRET 44. DEG F	1250	52.4	54.5	55.3	56.9	57.2	58.6	57.0	53.8	50.0								
(280. DEG K)	1600	52.0	53.3	54.4	55.7	56.3	56.6	55.5	52.5	47.5								
HACT 0.00 GM/M3	2000	52.3	54.7	56.0	56.6	57.2	59.4	59.0	54.4	47.3								
(0.0000 LB/M3)	2500	51.9	54.0	55.6	56.4	56.6	58.1	55.0	50.1	45.3								
NFA 7825. RPM	3150	49.8	52.8	54.6	55.3	56.3	53.0	54.1	48.9	42.6								
(819. RAD/SEC)	4000	50.3	53.1	55.4	57.1	59.3	58.2	58.0	49.6	41.9								
NFK 7917. RPM	5000	48.7	51.5	54.3	56.4	57.4	57.1	55.6	50.1	41.7								
(829. RAD/SEC)	6300	49.6	52.9	55.2	59.3	59.9	61.8	60.1	51.0	41.0								
NFC 8823. RPM	8000	49.7	53.3	56.1	59.4	60.5	62.9	60.9	51.0	39.8								
(924. RAD/SEC)	10000	48.7	53.1	55.6	57.6	59.7	60.1	58.9	48.6	35.9								
NO. OF BLADES 15	12500	50.4	55.9	59.3	60.3	60.6	60.8	58.0	46.3	31.9								
FAN TIP SPEED	16000	46.4	52.6	55.4	56.2	56.5	56.5	50.9	38.8	22.1								
669. FT/SEC	20000	41.1	48.1	50.2	52.3	52.3	52.4	46.6	31.8	10.2								
	25000	31.9	37.3	41.0	42.2	43.3	42.3	36.2	18.9									
	31500	19.2	25.5	28.5	30.1	30.0	27.6	19.5										
	40000	2.5	8.2	11.0	12.3	11.3	6.5											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.4	68.9	70.5	71.5	72.3	72.8	71.6	68.8	66.7								
PNDB		77.0	79.2	81.0	82.5	83.7	84.1	83.0	78.0	72.6								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 12 DAY 17 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.9	72.6	73.9	74.6	75.1	75.6	78.6	83.2	87.8									112.6
125	77.1	75.9	76.9	79.1	79.4	80.1	81.1	83.2	87.3									113.9
160	76.1	78.4	76.1	76.1	78.4	80.4	82.1	84.5	87.1									114.6
200	75.3	76.4	77.6	79.9	80.3	82.6	83.8	85.9	88.8									115.7
250	81.1	81.6	82.6	82.5	84.3	85.6	85.9	86.7	88.9									116.0
315	79.6	80.9	80.6	81.1	81.6	82.4	82.9	85.2	86.8									115.0
400	78.1	78.9	79.1	79.6	80.4	81.9	82.4	84.5	86.1									114.9
500	74.3	77.6	77.9	79.4	80.3	82.4	82.9	84.2	85.3									114.6
630	77.9	78.9	80.4	81.7	83.1	83.6	84.1	84.2	84.8									115.8
800	81.8	82.1	82.1	82.7	83.8	84.6	84.6	84.7	85.6									116.8
1000	77.1	77.9	78.6	79.9	81.8	83.1	83.4	83.0	83.1									113.6
1250	75.1	76.7	77.9	79.2	81.1	82.1	83.1	82.5	82.1									113.9
1600	75.1	76.2	77.5	78.7	79.8	80.6	81.6	81.2	80.6									112.7
2000	75.6	77.5	78.5	79.7	81.3	83.0	83.2	83.0	81.3									114.8
2500	75.1	77.0	78.5	78.7	78.3	79.3	81.4	79.5	79.3									112.2
3150	74.3	76.3	77.7	79.4	78.5	78.3	81.4	78.7	77.5									111.9
4000	74.7	77.0	79.2	81.4	83.9	82.9	85.3	80.2	77.9									115.8
5000	73.4	76.0	78.4	80.3	82.6	83.6	83.5	81.1	77.9									114.3
6300	75.1	77.9	79.5	84.5	85.8	86.4	84.2	83.3	79.4									118.4
8000	76.1	79.1	81.4	84.9	87.3	90.8	91.1	85.2	80.7									120.3
10000	76.9	80.6	82.5	85.6	88.1	91.1	91.4	85.5	81.1									120.9
12500	81.2	85.4	89.1	90.4	91.6	93.6	93.3	87.3	83.1									124.3
16000	81.3	85.5	88.5	90.0	91.2	93.1	92.1	86.4	82.2									124.0
20000	81.2	85.9	88.3	90.4	92.3	94.7	94.4	88.1	83.8									125.7
25000	78.3	82.8	85.1	87.2	90.2	92.7	93.5	86.8	81.9									124.4
31500	76.3	80.4	82.5	85.9	89.1	90.6	90.5	84.3	78.4									120.6
40000	75.3	78.1	80.6	83.0	85.1	86.9	87.3	81.7	73.7									121.2
50000	76.2	77.2	78.6	79.9	82.4	83.0	82.5	79.0	73.0									119.8
63000	76.2	77.5	77.3	78.9	79.1	78.6	78.0	76.4	74.6									120.2
80000	82.2	79.3	79.6	80.1	80.1	79.3	77.7	77.8	77.2									125.8
OVERALL MEASURED																		
OVERALL CALCULATED	92.8	94.8	96.9	98.6	100.4	102.4	102.6	98.9	98.6									134.7
PNLB	101.1	102.8	104.4	106.7	108.1	109.9	110.8	107.8	106.6									

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 17 HR. 19.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, RAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.11)	131. (2.29)	141. (2.46)	151. (2.63)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	51.8	50.7	52.3	52.9	52.9	52.6	54.2	56.7	57.4								
VEHICLE R=55	125	54.9	54.1	55.2	56.3	57.1	57.0	56.6	56.5	57.1								
CONFIG 26	160	53.9	54.5	54.4	54.2	55.0	57.1	57.5	57.6	56.4								
LOC SCHNECTADY	200	53.8	54.4	55.8	57.9	57.9	59.3	58.9	59.0	58.1								
DATE 12/12/74	250	55.7	59.6	60.7	60.4	61.8	62.2	61.0	59.6	57.9								
RUN 38,8	315	57.1	58.8	58.5	59.0	59.0	58.8	57.9	57.9	55.7								
TAPE	400	55.5	56.7	57.1	57.4	59.1	58.2	57.3	57.0	54.7								
BAR 29.7 HG	500	53.7	55.4	55.7	57.1	58.0	58.6	57.7	56.6	53.7								
(1002 M/M2)	630	55.1	56.5	55.2	59.2	60.2	59.8	58.8	56.5	53.6								
TAMB 47. DEG F	800	58.9	57.7	58.8	60.1	60.8	60.6	59.1	56.7	53.4								
(281. DEG K)	1000	54.1	55.3	54.2	57.3	58.6	59.0	57.7	54.8	50.6								
TWET 44. DEG F	1250	51.9	54.3	55.3	56.4	57.7	57.8	57.3	54.1	49.3								
(280. DEG K)	1600	51.7	53.3	54.7	55.7	56.3	56.1	55.5	52.5	47.3								
HACT 6.69 GM/M3	2000	52.0	54.4	55.5	56.5	57.6	59.1	58.8	53.9	47.6								
(.00569 (G/M3)	2500	51.3	53.8	55.4	55.4	54.4	54.1	54.8	50.1	45.1								
NFA 7823. RPM	3150	50.3	52.8	54.3	55.8	54.3	53.0	54.4	48.9	42.6								
(819. RAD/SEC)	4000	50.3	53.1	55.4	57.4	59.3	57.2	57.7	49.6	41.6								
NFK 7815. RPM	5000	49.7	51.8	54.3	56.1	57.7	57.6	55.6	50.1	41.2								
(829. RAD/SEC)	6300	49.6	52.9	54.7	59.6	60.2	61.5	60.3	51.0	41.0								
NFD 8823. RPM	8000	49.5	53.1	55.6	58.9	60.5	62.7	60.6	51.0	39.5								
(924. RAD/SEC)	10000	48.7	53.1	55.1	57.4	59.7	61.1	58.9	48.6	35.9								
NO. OF BLADES 15	12500	50.6	55.6	59.6	60.5	60.8	61.0	57.7	46.5	32.1								
FAN TIP SPEED	16000	45.7	52.1	55.4	56.5	56.5	56.2	51.4	38.1	21.9								
883. FT/SEC	20000	41.8	47.6	50.4	52.0	52.5	52.1	47.1	32.3	10.2								
	25000	31.8	37.5	40.5	41.9	43.1	42.0	36.7	19.0									
	31500	19.2	25.2	28.2	30.4	30.3	28.1	19.7										
	40000	2.5	7.9	11.3	12.6	11.3	6.7											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.3	68.6	70.2	71.4	72.3	72.7	71.5	68.7	66.6								
PNDB		76.9	79.1	80.8	82.6	83.7	83.9	83.0	77.8	72.5								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 17 HR. 19.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. HZ)	100	79.6	81.9	82.4	80.9	78.4	73.9	71.6	74.5	77.1									112.6
VEHICLE R-55	125	74.4	78.1	72.6	69.1	78.4	78.9	71.4	72.2	75.8									105.4
CONFIG 26	160	73.4	69.9	69.1	69.1	77.6	71.1	71.9	73.5	75.3									164.5
LOC SCHENECTADY	200	72.1	69.9	71.6	71.6	73.1	74.1	73.9	75.4	77.3									166.7
DATE 12/12/74	250	71.8	72.1	72.8	72.6	72.8	74.1	74.4	74.7	76.0									165.6
RUN 38/9	315	71.8	71.9	71.6	71.6	72.3	72.9	72.9	73.9	75.8									166.8
TAPE	400	71.8	72.6	70.9	71.6	72.6	73.1	73.4	74.5	74.8									165.9
BAR 29.7 HG	500	71.6	71.4	71.1	73.1	73.1	74.9	74.4	75.5	75.1									166.8
(1002 MB/M2)	630	73.1	72.9	73.9	75.2	76.5	77.1	76.4	76.5	75.8									168.8
TAMB 47. DEG F	800	72.8	74.6	78.1	77.9	80.1	79.4	79.6	78.7	80.3									172.7
(281. DEG K)	1000	73.8	72.1	73.4	74.4	75.3	76.6	76.9	77.0	74.6									168.5
TWET 43. DEG F	1250	70.3	71.2	71.9	73.2	75.8	78.1	78.4	79.2	74.3									169.8
(279. DEG K)	1600	73.3	66.7	69.5	70.9	72.6	73.8	73.7	75.8	71.6									165.5
HACT 6.12 GM/M3	2000	70.3	68.3	68.7	69.7	70.1	70.6	69.9	70.3	69.6									164.2
(.00612 KG/M3)	2500	70.3	69.0	71.8	71.7	71.3	71.6	71.1	71.6	69.8									164.4
NFA 5487. RPM	3150	70.3	68.3	69.2	70.2	71.0	72.5	70.9	71.0	69.0									164.8
(574. RAD/SEC)	4000	70.2	68.3	69.7	72.4	76.7	77.4	76.8	74.2	69.9									167.7
NFK 5552. RPM	5000	72.2	68.3	69.4	72.1	74.8	78.9	76.5	75.4	71.1									169.2
(581. RAD/SEC)	6300	70.1	73.1	72.3	74.3	77.8	80.2	80.5	78.1	73.5									170.3
NFB 8823. RPM	8000	73.6	73.4	76.0	78.7	80.9	82.1	83.3	80.3	75.3									173.1
(924. RAD/SEC)	10000	72.9	67.7	91.8	95.5	98.6	91.6	89.2	86.3	82.4									120.8
NO. OF BLADES 15	12500	79.0	84.7	87.7	88.9	89.2	88.9	87.1	83.6	79.1									120.7
FAN TIP SPEED	16000	71.6	75.8	79.8	80.6	82.5	84.2	84.1	80.2	75.3									115.8
479. FT/SEC	20000	70.6	73.2	75.7	78.2	80.7	82.5	83.8	79.9	74.3									114.3
	25000	73.2	73.3	74.8	75.3	77.3	79.3	80.4	76.7	72.5									112.1
	31500	72.0	72.8	73.2	75.2	76.2	78.3	79.4	76.2	70.8									112.2
	40000	72.8	72.7	72.5	74.4	75.3	76.1	77.0	74.1	70.1									112.2
	50000	75.7	75.2	74.3	75.9	75.3	75.2	74.7	73.7	72.2									114.5
	63000	77.9	76.8	76.2	77.4	76.3	75.5	74.2	74.8	73.7									116.3
	80000	81.9	79.1	79.3	79.8	79.8	79.1	77.5	77.6	77.8									120.6
OVERALL MEASURED																			
OVERALL CALCULATED		90.3	92.0	94.7	97.3	98.3	95.5	94.9	92.7	90.3									130.9
PNL		98.6	100.4	103.0	105.6	106.9	104.7	103.5	102.8	99.4									

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 12 DAY 17 HR. 10.6

MODEL SQUAD PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (ARE RADIANS)									
		71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	57.5	60.2	60.8	59.1	56.1	50.8	47.2	47.9	47.8								
VEHICLE R-55	125	52.2	48.3	51.0	47.3	48.1	47.7	46.9	45.5	45.6								
CONFIG 20	160	48.1	47.0	47.4	47.2	48.2	47.9	47.3	46.6	44.9								
LOC SCHENECTADY	200	49.8	47.9	49.8	49.6	50.6	50.4	49.1	48.5	46.6								
DATE 12/12/74	250	49.4	50.1	51.0	50.5	50.3	50.7	49.5	47.6	45.2								
RUN 30/9	315	49.3	49.8	49.6	49.5	49.7	49.3	47.9	46.7	44.0								
TAPE	400	49.3	48.4	48.8	49.4	49.9	49.5	48.3	47.0	43.5								
BAR 29.7 HG	500	48.9	49.1	49.0	50.5	50.3	51.1	49.2	47.8	43.5								
(0.0 100. N/M2)	630	50.3	50.5	51.7	52.7	53.7	53.3	51.0	48.7	44.0								
TAMB 47. DEG F	800	52.9	54.2	56.8	55.4	57.3	55.4	54.1	50.7	48.2								
(281. DEG K)	1000	49.8	49.5	50.9	51.9	52.1	52.7	51.2	48.8	42.1								
TMET 43. DEG F	1250	47.2	48.5	49.3	50.4	52.2	53.8	52.5	50.8	41.5								
(279. DEG K)	1600	47.8	45.8	46.7	48.3	49.1	49.3	47.5	46.3	38.3								
RHACT 0.12 GM/M3	2000	46.8	45.2	45.8	46.6	46.4	46.1	43.5	41.5	35.8								
(0.00012 KG/M3)	2500	46.6	45.8	47.9	48.4	47.4	46.0	44.5	42.4	35.6								
NFA 5407. RPM	3150	46.3	44.8	45.8	47.3	46.9	47.3	43.9	41.1	34.1								
(574. RAD/SEC)	4000	45.8	44.3	45.9	48.4	52.0	51.7	49.2	43.6	33.9								
NFK 5552. RPM	5000	45.5	44.0	45.4	47.8	50.9	50.8	48.6	44.4	34.5								
(581. RAD/SEC)	6300	44.7	45.2	47.5	49.3	52.2	53.3	51.6	45.8	35.8								
NF3 8023. RPM	8000	44.8	47.3	50.1	52.8	54.1	54.9	52.9	46.1	34.8								
(924. RAD/SEC)	10000	54.7	60.4	64.4	67.9	68.2	61.6	56.7	49.4	37.2								
NO. OF BLADES 15	12500	48.5	54.9	58.1	59.1	58.4	54.3	51.5	42.6	28.2								
FAN TIP SPEED	16000	37.3	42.4	46.7	47.1	47.8	47.3	43.5	32.9	14.9								
479. FT/SEC	20000	31.2	35.8	37.8	39.9	40.9	40.9	36.5	24.2	1.5								
	25000	26.6	28.2	29.3	30.8	30.2	28.7	23.5	8.8									
	31500	14.8	17.7	18.7	19.8	18.4	15.7	8.6										
	40000		2.6	3.2	4.8	1.5												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.5	65.8	68.2	70.8	70.2	66.5	64.8	60.6	56.2								
PNDB		73.2	75.8	77.6	79.8	80.4	77.3	74.5	70.4	63.6								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 4 DAY 29 HR. 20:1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	86.4	82.4	57.8	73.8	73.7	74.7	71.7	67.8	69.8	72.1	75.2							112.3
(5. M)	100	85.9	83.2	57.3	70.3	80.0	78.4	75.5	69.8	71.8	74.4	76.9							113.5
VENICLE R-59	125	84.2	82.8	56.8	68.3	74.1	68.8	67.3	70.8	71.1	73.9	74.8							110.4
CONFIG 75-1A	160	82.7	82.7	57.3	66.8	66.5	67.8	68.5	69.3	71.3	73.1	74.7							109.9
LOC SCHENECTADY	200	80.2	82.4	60.8	67.1	68.1	69.6	70.3	71.1	72.6	73.4	74.3							109.4
DATE 01-16-75	250	79.3	82.3	56.3	69.1	69.8	69.8	71.1	71.8	72.6	73.7	75.3							109.3
RUN 50-3	315	80.2	83.1	56.8	70.4	70.4	70.9	71.3	71.1	72.4	74.2	74.8							109.8
TAPE 25	400	81.4	82.2	56.3	68.8	69.5	70.3	71.8	71.3	72.8	73.1	73.9							109.6
BAR 29.0 HG	500	79.1	81.9	56.2	68.7	69.9	70.9	71.9	72.7	73.4	74.0	73.8							109.1
(98400; N/M2)	630	78.8	81.3	56.6	72.3	73.1	74.1	75.8	76.4	76.4	76.2	74.8							118.2
TAM 38; DEG F	800	78.8	82.4	56.4	71.9	72.4	73.9	75.3	76.4	76.4	76.8	73.9							116.4
(276; DEG K)	1000	79.5	81.6	56.6	70.8	73.1	75.5	77.8	78.9	79.9	79.7	78.2							116.5
TMET 36; DEG F	1250	78.3	83.3	56.4	70.9	81.6	83.3	85.3	86.2	86.2	86.8	86.0							117.7
(275; DEG K)	1600	78.2	81.7	56.5	77.3	80.8	82.8	84.2	83.8	83.6	83.4	77.4							119.7
MACT 5.83 GM/M3	2000	78.5	80.1	56.6	78.1	80.6	82.8	83.8	83.7	82.7	81.5	77.7							119.4
(.00365 KG/M3)	2500	77.8	81.3	56.4	79.8	83.8	85.2	87.2	87.6	89.2	87.8	81.9							120.1
NFA 3413. RPM	3150	78.8	80.6	56.5	77.4	80.6	83.8	84.7	85.9	86.5	84.3	79.1							120.9
(367; RAD/SEC)	4000	72.3	79.1	56.3	73.9	77.3	80.2	83.7	84.2	84.5	81.6	76.2							114.7
NFX 5520. RPM	5000	75.8	77.8	56.5	70.9	79.1	78.9	82.4	82.2	81.8	79.6	73.6							113.8
(579; RAD/SEC)	6300	72.2	77.6	56.6	71.3	74.8	78.8	81.6	82.1	83.8	80.4	74.8							113.2
NFB 8823. RPM	8000	73.1	76.8	56.9	74.8	77.2	80.7	82.4	83.7	84.7	81.2	77.8							114.8
(924; RAD/SEC)	10000	80.2	81.3	57.2	80.9	81.9	85.5	90.8	92.4	90.6	86.8	81.4							126.3
NO. OF BLADES 15	12500	77.6	79.8	57.4	78.8	81.8	83.9	86.4	87.5	87.5	82.3	78.2							118.3
FAN TIP SPEED	16000	78.9	80.3	57.7	73.9	78.9	78.9	81.9	84.6	86.1	80.6	77.9							116.4
473. FT/SEC	20000	81.6	80.6	58.1	72.8	75.4	78.8	80.9	84.8	86.7	81.3	78.9							116.6
	25000	82.8	82.7	57.8	73.8	73.6	74.5	78.1	86.7	82.9	79.5	79.5							115.3
	31500	82.6	81.8	55.8	74.8	73.9	73.9	77.2	79.9	81.3	77.8	78.7							115.6
	40000	82.7	82.6	55.3	76.6	75.5	72.4	76.1	78.3	79.4	77.8	81.2							116.8
	50000	80.8	80.9	56.2	75.6	74.2	68.8	71.9	73.4	72.8	74.8	79.6							114.8
	63000	77.2	75.7	66.3	72.2	78.8	63.8	66.7	69.8	63.5	68.7	75.4							114.6
	80000	70.4	69.7	64.5	67.5	66.8	65.6	66.8	69.5	64.2	62.8	69.5							110.8
OVERALL MEASURED																			
OVERALL CALCULATED		99.5	96.2	73.8	92.3	94.8	98.5	98.8	97.9	98.8	99.6	99.5							121.2
	PNOB	102.8	106.9	82.8	102.7	103.8	108.7	109.5	108.8	108.6	108.8	103.8							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (DB, REF. P, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
SIDELINE 200. FT, 88	62.8	59.8	34.9	54.3	54.2	53.8	49.6	44.0	44.7	45.6	45.3						
(60.96 M) 100	62.2	60.5	35.2	57.6	58.4	57.0	53.5	46.8	46.6	47.8	46.4						
VEHICLE R-55 125	59.4	60.2	34.4	48.5	52.4	47.8	45.8	47.4	46.6	45.2	44.5						
CONFIG 79-1A 160	58.8	59.6	35.8	44.2	44.8	45.1	46.1	46.0	46.7	46.3	44.3						
LOC SCHENECTADY 200	59.3	59.3	38.3	45.2	48.3	47.6	47.9	47.8	47.9	47.5	45.8						
DATE 01-16-75 250	59.4	59.2	33.9	47.1	48.8	47.8	48.6	48.4	47.8	46.6	44.4						
RUN 58-3 315	59.1	59.9	34.1	48.3	48.4	48.7	47.7	47.6	47.4	45.9	43.2						
TAPE 25 400	57.1	58.9	33.7	46.6	47.5	48.3	48.3	47.9	46.8	45.7	42.6						
BAR 29.8 MB 500	54.7	58.5	33.5	46.4	47.8	48.6	49.1	49.8	48.2	46.4	42.3						
(98490. N/M2) 630	54.5	57.9	33.8	50.8	50.8	51.7	52.9	52.5	51.8	48.4	42.9						
TAMB 34. DEG F 800	54.3	58.7	33.5	49.4	50.8	51.3	52.3	52.4	50.9	48.8	41.4						
(274. DEG K) 1000	51.6	58.8	33.5	48.2	50.6	52.9	54.8	54.7	54.2	51.5	42.8						
TWET 34. DEG F 1250	53.3	59.4	33.2	50.2	59.8	60.6	62.8	61.9	60.3	58.4	47.2						
(279. DEG K) 1600	50.9	57.6	33.1	54.4	57.2	59.8	60.7	59.5	57.5	54.7	44.1						
HACT 5.05 G-/M3 2000	53.1	55.8	33.8	52.8	57.6	59.6	60.1	58.9	56.3	54.5	44.8						
(.00589 KG/M3) 2500	51.3	56.8	32.9	56.6	59.9	61.7	63.3	62.7	62.5	57.7	47.7						
NFA 5413. RPM 3150	50.8	55.6	32.5	53.9	57.2	59.4	60.5	60.6	59.5	54.5	44.5						
(567. RAD/SEC) 4000	49.7	53.8	31.8	49.9	53.5	56.2	57.1	57.4	56.9	51.8	42.2						
NFK 5520. RPM 5000	48.9	52.8	31.8	46.7	51.8	54.7	57.5	56.1	53.1	48.6	39.0						
(579. RAD/SEC) 6300	48.5	51.2	31.4	48.4	49.3	53.8	56.0	55.2	54.1	49.2	37.6						
NFD 8023. RPM 8000	48.8	49.2	30.3	48.8	51.3	54.6	55.6	55.6	54.3	47.8	35.8						
(924. RAD/SEC) 10000	49.2	52.8	29.1	61.4	64.5	68.9	67.6	62.5	58.1	49.8	36.2						
NO. OF BLADES 15 12500	43.7	47.1	26.7	49.1	52.3	54.8	55.6	54.4	51.8	41.5	27.2						
FAN TIP SPEED 14000	41.4	44.5	23.4	40.5	43.7	45.3	47.2	46.8	45.4	33.3	17.8						
473. FT/SEC 20000	37.8	39.1	18.7	34.6	37.5	40.5	41.1	41.4	39.4	25.5	6.1						
25000	36.7	33.5	18.8	27.9	29.8	29.2	31.8	30.8	29.7	11.7							
31500	18.5	21.2		18.9	19.3	18.5	19.3	17.4	18.6								
40000		4.4		6.5	6.2	2.8	2.4										
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.5	71.4	47.2	60.3	69.5	73.1	72.2	70.5	68.9	64.9	57.2						
PNDB	79.9	81.9	97.8	79.2	81.2	83.2	84.4	83.9	82.6	78.2	69.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	31. (0,92)	62. (1,08)	71. (1,24)	81. (1,41)	91. (1,58)	101. (1,76)	111. (1,94)	122. (2,13)	133. (2,32)	145. (2,53)	154. (2,73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FT.	80	61.9	60.2	62.2	64.0	64.5	64.7	67.0	68.5	78.2	78.8	78.2							103.4
(5. M)	100	72.9	73.5	72.0	72.5	78.0	69.5	64.0	64.5	71.8	73.1	79.2							106.8
VEHICLE R-54	125	60.5	60.8	71.3	78.6	74.3	71.3	70.6	73.1	74.1	73.4	79.0							107.1
CONFIG 25-14	160	67.9	67.5	68.0	69.5	69.8	69.8	71.5	72.6	74.5	76.6	78.7							106.5
LOC SCHENECTADY	200	60.5	66.1	67.3	69.6	70.9	72.6	73.6	75.4	76.1	76.4	80.5							105.3
DATE 01-16-75	250	69.5	69.5	71.3	72.6	73.3	73.3	74.3	74.4	76.1	76.9	78.8							108.3
RUN 58-4	315	71.2	71.6	72.1	74.1	73.9	74.1	74.3	74.6	75.6	76.7	78.9							108.4
TAPE 29	400	69.4	70.0	70.3	71.8	72.5	73.2	74.2	74.8	76.8	76.9	77.9							109.0
BAR 29.0 HG	500	66.1	68.6	69.4	71.4	72.9	73.7	74.9	75.9	76.7	77.8	77.1							101.2
(0849A; M/S2)	630	70.7	71.0	73.0	74.6	75.8	77.1	78.5	79.1	79.4	76.7	76.8							113.9
TAMB 37; DEG F	800	71.3	71.8	72.8	74.4	75.1	76.4	78.1	78.7	78.7	78.8	76.0							113.4
(274; DEG K)	1000	71.8	71.3	72.3	73.8	75.6	78.8	80.3	81.4	82.1	80.9	77.8							112.5
TMET 39; DEG F	1250	72.8	71.6	73.1	76.4	79.4	81.0	83.3	83.7	83.9	83.8	77.8							114.2
(277; DEG K)	1600	78.4	79.2	80.0	85.5	88.7	89.2	96.7	89.8	98.6	90.9	82.6							122.3
MACT 4.80 GM/M3	2000	73.3	74.8	76.1	81.4	83.6	85.8	87.8	86.4	86.4	84.3	79.5							115.2
(.0044 LB/F3)	2520	74.2	74.3	77.3	86.1	83.8	85.5	87.2	87.1	87.4	86.8	78.4							118.3
NFA 815. RPM	3150	74.3	76.8	78.8	82.4	85.6	88.2	89.7	90.7	93.2	87.8	84.2							122.3
(849; RAD/SEC)	4000	69.5	71.8	73.8	77.4	81.1	83.7	86.2	85.4	87.8	82.6	77.9							117.8
NFA 1331. RPM	5040	69.8	69.8	72.8	76.2	79.3	83.4	86.4	85.9	85.5	82.6	77.8							115.7
(663; RAD/SEC)	6300	72.5	69.1	71.1	74.8	78.3	82.2	85.4	86.3	86.8	82.2	76.8							116.6
NFB 2623. RPM	8000	66.9	78.6	72.5	76.1	79.2	82.4	85.7	87.8	87.7	82.9	77.3							117.3
(924; RAD/SEC)	10000	74.9	79.1	87.8	87.7	98.9	93.8	98.8	98.4	92.4	87.1	82.1							124.2
NO. OF BLADES 15	12500	74.9	78.3	83.8	86.4	91.6	92.9	91.1	91.1	91.5	83.8	80.4							124.3
FAN TIP SPEED	14000	64.5	71.7	74.7	88.7	83.6	84.1	86.6	89.4	88.8	82.9	77.2							119.7
541. FT/SEC	20000	67.4	78.1	72.4	76.1	79.7	82.8	85.9	88.9	91.8	84.5	77.4							120.2
	25000	67.3	69.3	68.3	72.1	76.2	80.8	83.6	85.7	87.6	82.6	75.3							117.8
	31500	66.8	78.3	68.6	72.8	74.8	78.1	81.4	84.6	85.8	80.8	73.2							117.8
	40000	67.9	69.7	64.9	78.8	73.8	76.6	80.1	82.8	83.4	78.7	70.1							114.3
	50000	66.6	66.3	59.3	64.7	66.5	69.4	73.8	73.8	79.9	72.6	65.4							111.5
	63000	64.7	58.2	53.1	66.3	66.6	62.8	64.7	65.1	65.6	63.3	60.5							105.5
	80000	69.1	58.4	56.2	65.0	69.8	65.4	66.8	69.2	64.8	64.5	64.6							111.6
OVERALL MEASURED																			
OVERALL CALCULATED		80.3	87.6	89.7	94.2	97.3	99.3	99.6	100.1	101.3	97.6	93.3							122.8
	PNDB	96.1	99.4	101.3	104.7	107.5	109.9	111.4	111.9	113.9	109.9	106.3							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (SPL, DB re: 2. 10 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 4 DAY 29 HR: 20.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80	36.3	37.3	40.2	42.3	43.6	43.8	44.8	45.5	45.9	47.4	48.3						
100	40.2	36.7	39.9	38.6	40.2	47.8	46.5	45.5	47.4	46.6	49.2						
125	44.7	46.6	49.1	48.8	52.7	49.5	48.3	49.9	49.8	49.7	48.8						
160	46.8	44.6	45.8	47.7	48.8	47.9	47.1	49.5	49.9	49.8	48.3						
200	43.5	43.1	45.8	47.7	49.1	50.6	51.1	52.8	51.4	51.5	49.9						
250	45.4	46.5	48.9	50.6	51.5	51.3	51.8	51.2	51.3	49.8	47.9						
315	47.1	48.4	49.6	51.8	51.9	52.8	51.2	51.1	50.7	47.4	46.9						
400	45.1	46.7	47.7	49.6	50.5	51.8	51.5	51.1	50.9	49.4	46.6						
500	43.7	45.2	46.7	49.2	50.8	51.3	52.1	52.2	51.5	49.4	45.3						
630	46.2	47.9	50.6	52.2	53.6	54.7	55.0	55.2	54.8	50.9	44.9						
800	46.6	48.8	49.7	51.9	52.8	53.5	55.0	54.7	53.1	50.8	43.9						
1000	46.1	46.8	49.4	51.2	53.1	55.4	57.1	57.2	56.4	54.7	44.9						
1250	47.8	47.7	50.8	53.7	56.8	58.8	60.8	59.4	58.1	54.6	45.8						
1600	53.2	55.1	56.6	62.6	66.8	66.2	67.2	65.3	64.5	62.2	49.4						
2000	49.8	50.3	54.5	58.3	60.6	62.6	63.3	61.7	60.1	59.2	45.7						
2500	47.6	49.6	53.5	56.4	59.9	62.2	63.3	62.2	60.8	59.7	44.2						
3150	46.5	52.8	54.9	58.9	62.2	64.6	65.9	65.4	64.2	58.8	47.3						
4000	45.8	48.3	48.8	53.4	57.3	59.7	61.6	59.7	59.4	52.8	41.9						
5000	42.9	44.3	46.1	52.8	55.3	59.2	61.5	59.9	57.6	51.6	41.8						
6300	44.7	42.6	45.8	49.7	54.5	57.2	59.7	59.5	57.9	49.9	38.3						
8000	38.7	43.8	45.9	50.8	53.3	56.4	58.9	58.8	57.3	48.7	36.8						
10000	43.4	49.7	54.6	60.2	63.6	66.2	62.4	60.5	59.8	50.2	36.9						
12500	41.8	46.4	52.5	58.6	62.1	63.8	60.3	58.5	59.9	49.8	29.5						
16000	29.9	35.7	40.4	47.2	50.5	50.6	52.8	52.5	48.2	35.6	16.8						
20000	22.8	28.6	34.8	37.9	41.8	44.5	46.1	46.3	43.6	20.8	4.9						
25000	14.8	20.6	21.8	27.8	31.5	34.8	36.5	35.1	30.7	14.9							
31500		9.6	9.5	18.8	28.3	22.7	23.6	22.1	19.8								
40000					3.6	6.2	6.3	11.8									
50000																	
61000																	
80000																	
OVERALL CALCULATED	48.2	62.8	64.9	68.8	71.8	73.5	73.8	72.7	72.8	67.8	58.9						
PNDB	71.8	74.9	77.1	81.0	84.9	86.2	87.1	86.5	86.4	77.9	71.5						

SIDELINE 200. FT, (60.96 M)
VEHICLE S-3S
CONFIG 7S-1A
LOC SCHENECTADY
DATE 01-18-75
RUN 58-9
TAPE 25
BAR 29.8 HG (98.999 N/M2)
TAMB 37. DEG F (276. DEG K)
TWET 35. DEG F (275. DEG K)
HACT 4.84 G-M**3 (.88484 KG/M3)
NFA 6195. RPM (649. RAD/SEC)
NFR 6334. RPM (663. RAD/SEC)
NFD 8824. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 941. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	54. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	63.1	63.4	78.7	65.7	66.0	67.0	69.7	71.7	79.0	77.1	79.9							109.4
100	67.2	73.2	82.3	71.8	71.0	71.0	70.8	71.8	76.5	76.1	80.7							119.4
125	75.5	80.3	85.1	76.1	76.6	75.1	74.1	77.1	78.8	78.9	80.8							113.3
160	70.7	71.7	81.0	72.5	72.5	72.8	75.0	76.0	77.5	79.9	81.0							110.7
200	70.5	70.6	81.3	72.6	73.9	75.9	76.6	78.1	77.9	80.9	81.0							111.6
250	72.7	74.0	82.3	79.8	76.3	76.8	78.6	78.8	77.9	80.2	80.3							112.4
315	74.2	75.6	83.8	76.4	76.6	77.6	77.6	77.9	76.9	80.2	79.5							112.7
400	71.9	74.0	82.8	75.0	75.8	76.2	77.9	77.3	75.8	79.9	78.7							111.8
500	70.8	72.1	82.2	74.9	75.7	76.4	77.9	78.4	76.9	80.0	78.3							111.8
630	74.0	74.5	82.6	77.6	78.3	79.6	81.3	81.6	78.4	80.9	78.0							113.8
800	74.5	75.3	83.1	77.1	77.9	79.1	80.6	81.2	78.2	80.0	77.8							113.5
1000	73.2	75.3	83.6	78.3	77.8	80.8	82.3	83.4	81.4	81.7	77.7							114.9
1250	73.5	74.6	84.4	78.4	80.6	82.8	84.8	85.4	81.4	82.8	78.3							115.4
1600	80.2	79.7	86.2	86.0	89.2	91.2	92.9	92.3	86.3	88.9	81.4							123.4
2000	77.3	77.3	87.6	85.6	88.1	90.8	92.0	91.4	87.7	87.5	81.0							122.7
2500	75.7	77.8	85.8	83.1	86.8	88.5	89.4	89.1	86.7	84.0	79.4							120.5
3150	75.5	79.3	86.1	83.9	87.8	90.0	92.5	92.2	91.0	87.1	81.7							123.0
4000	73.8	75.8	83.5	81.4	85.3	88.2	90.7	90.2	86.0	85.4	79.9							120.9
5000	72.1	73.6	82.3	78.9	82.6	87.2	90.7	89.9	85.5	83.1	80.9							120.1
6300	73.2	72.4	81.8	78.1	80.8	86.5	88.1	89.1	86.8	84.7	80.8							119.2
8000	71.9	73.1	82.7	78.5	81.4	86.4	86.4	90.0	87.5	85.4	81.8							119.8
10000	73.5	75.6	84.8	83.7	85.6	89.0	91.0	92.4	90.4	87.8	83.1							122.7
12500	76.6	80.5	89.3	89.9	93.6	95.1	92.6	93.3	90.5	88.3	84.7							126.1
16000	71.5	75.2	85.7	83.9	86.9	89.6	91.4	92.6	89.3	89.1	84.7							123.5
20000	70.1	73.1	85.9	80.8	83.4	86.6	89.9	92.1	90.2	90.5	85.4							123.2
25000	70.5	72.0	85.6	78.6	80.9	84.8	87.6	90.5	88.3	91.1	87.3							122.6
31500	70.0	71.5	84.9	78.0	79.3	82.8	86.4	88.9	86.3	88.8	84.9							121.7
40000	71.6	71.9	85.4	78.8	79.0	81.6	84.8	86.5	85.1	86.2	87.1							122.4
50000	70.3	70.0	83.3	79.5	75.5	75.4	78.0	80.0	78.4	82.1	84.7							120.1
63000	67.0	66.2	78.4	72.8	70.8	68.8	68.5	71.8	71.4	81.3	78.2							117.4
80000	68.1	68.4	71.2	68.0	66.0	65.4	66.0	65.2	73.5	75.5	74.8							117.2
OVERALL MEASURED																		
OVERALL CALCULATED	88.5	90.3	99.1	95.9	98.8	101.2	102.5	103.1	100.7	100.5	97.0							134.9
PNOB	100.2	102.3	110.1	106.7	109.8	112.2	114.3	114.3	112.4	110.5	106.2							

FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

PROC. DATE = MONTH 4 DAY 29 HR 20.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.14)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT,	80	39.5	40.8	56.7	44.1	44.5	45.8	47.6	48.7	54.7	50.6	50.0						
(60.96 M)	100	43.5	50.9	60.2	58.1	49.4	49.3	46.5	46.7	54.1	51.6	50.7						
VEHICLE B-55	125	49.7	57.5	62.9	56.3	54.9	53.3	51.8	53.9	54.3	52.2	50.5						
CONFIG 75-1A	160	48.8	48.8	56.8	50.7	50.8	50.9	52.6	52.8	52.9	53.0	50.5						
LOC SCHENECTADY	200	48.5	47.9	59.0	50.7	52.1	53.9	54.1	54.8	53.1	50.0	50.4						
DATE 01-16-75	250	48.7	51.8	59.9	53.8	54.5	54.8	56.1	55.4	53.8	53.1	49.4						
RUN 50-2	315	50.1	52.4	61.4	54.3	54.6	55.5	55.0	54.3	51.9	52.9	48.4						
TAPE 25	400	47.6	50.7	60.2	52.8	53.7	54.8	54.3	53.8	50.7	52.4	47.4						
BAR 29.0 HG	500	46.4	48.7	59.5	52.7	53.5	54.1	55.1	54.7	51.7	52.4	46.8						
(98698. N/M2)	630	49.5	51.0	59.8	55.2	56.1	57.2	58.4	57.7	53.0	54.2	46.2						
TAMB 37. DEG F	800	49.8	51.7	60.2	54.6	55.5	56.6	57.5	57.2	52.6	54.8	45.6						
(276. DEG K)	1000	48.4	51.5	60.5	55.7	55.3	56.1	59.1	59.2	55.7	53.5	45.3						
THET 39. DEG F	1250	48.5	50.7	61.2	55.7	58.0	60.1	61.5	61.1	55.6	54.4	45.9						
(275. DEG K)	1600	54.9	55.6	64.9	63.1	66.5	68.2	69.4	67.6	62.2	60.2	48.1						
WACT 4.80 DM/M3	2000	53.8	55.0	64.0	62.5	65.1	67.6	68.3	66.7	61.3	58.5	47.2						
(.00494 KG/M3)	2500	50.1	53.3	62.0	59.8	63.7	65.2	65.6	64.2	60.0	56.7	45.2						
NFA 6965. RPM	3150	49.5	54.5	62.0	60.4	64.4	66.4	66.3	66.9	64.0	57.2	46.8						
(729. RAD/SEC)	4000	47.2	50.5	59.1	57.4	61.5	64.2	66.1	64.4	60.4	56.8	43.9						
NFR 7115. RPM	5000	45.2	48.8	57.6	54.7	58.5	62.9	65.8	63.9	57.6	55.1	44.8						
(745. RAD/SEC)	6300	45.5	46.9	56.4	53.2	56.0	61.5	62.5	62.2	57.9	52.4	42.3						
NFD 8329. RPM	8000	42.7	45.9	56.1	52.5	55.6	60.4	61.6	61.8	57.1	51.2	40.5						
(924. RAD/SEC)	10000	42.4	46.2	56.6	56.2	58.3	61.4	62.6	62.5	57.8	50.9	37.9						
NO. OF BLADES 15	12500	42.7	48.6	56.7	60.1	64.1	65.3	61.8	60.7	54.9	47.5	33.7						
FAN TIP SPEED	16000	36.9	39.2	51.4	50.5	54.7	56.1	56.7	55.8	48.7	41.8	24.3						
808. FT/SEC	20000	29.5	31.6	46.5	42.6	45.5	48.2	50.1	49.9	42.0	34.8	12.8						
	25000	17.2	22.0	39.1	33.5	36.3	39.5	40.5	39.8	31.5	26.2							
	31500	9.0	18.9	27.8	22.8	24.8	27.5	28.6	28.4	15.5	2.4							
	40000			12.6	8.6	9.6	11.2	11.1	9.6									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.4	65.8	74.9	70.7	73.6	75.7	76.7	75.5	71.2	67.9	61.0						
	PNDB	74.3	77.6	86.1	83.1	86.3	88.5	90.0	88.9	85.3	80.6	71.3						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (DB, REF. P, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	133, (2.32)	145, (2.52)	156, (2.73)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80	89.4	83.7	72.5	66.7	68.5	86.2	86.7	83.7	84.2	78.3	78.7							117.2
(5, 4) 100	83.9	83.0	74.5	70.0	71.8	85.6	85.5	82.5	82.8	79.4	79.5							116.3
VEHICLE S-55 125	83.7	81.6	77.1	73.5	74.1	83.8	85.3	83.8	83.8	80.2	80.0							116.2
CONFIG 75-1A 160	83.2	79.7	76.0	73.5	73.5	83.8	84.5	82.8	83.0	81.1	80.0							115.5
LOC SCHENECTADY 200	81.0	78.8	75.1	70.1	71.4	84.4	84.6	82.1	83.1	82.2	80.8							115.4
DATE 01-16-75 250	81.0	80.5	77.1	74.6	75.1	84.3	84.8	83.6	84.6	83.4	79.8							116.3
RUN 50-6 315	81.5	81.3	77.3	74.9	74.4	83.1	84.6	81.9	82.1	80.9	77.5							115.2
TAPE 25 400	78.7	80.7	76.3	74.0	75.0	82.0	84.0	82.0	82.0	80.4	77.2							114.6
BAR 29.8 HG 500	78.6	78.9	76.2	72.7	72.9	81.2	83.6	81.9	81.9	81.0	77.8							114.2
(00498; N/M2) 630	78.5	80.8	77.0	75.6	76.1	82.3	83.8	83.1	83.1	81.4	77.0							115.1
TAMB 30. DEG F 800	79.0	79.8	77.6	74.6	75.9	81.4	83.3	83.2	82.7	81.7	78.3							114.7
(276; DEG K) 1000	79.5	79.3	78.8	74.3	75.3	81.5	84.3	84.9	85.4	84.2	75.7							115.7
THET 35. DEG F 1250	75.3	79.6	78.4	76.2	78.1	84.1	86.1	86.2	85.9	84.4	77.8							117.1
(279; DEG K) 1600	76.9	79.2	80.2	80.3	81.5	87.2	89.9	89.8	88.6	84.7	76.9							120.3
MACT 4.94 GM/M3 2000	82.0	85.8	84.8	86.9	86.8	93.8	96.8	97.4	95.9	90.1	82.0							127.0
(.00454 KG/M3) 2500	80.5	81.8	81.5	83.1	85.3	91.0	91.4	90.9	91.7	85.3	77.2							122.3
NFA 7740. RPM 3150	78.0	80.0	80.3	82.2	84.1	90.2	92.5	91.9	93.0	86.9	78.9							122.9
(810; RAD/SEC) 4000	77.3	79.1	78.8	81.2	83.1	91.2	93.4	92.9	94.0	87.6	79.9							123.8
NFK 7904. RPM 5000	75.1	77.6	77.8	78.9	81.3	88.5	91.2	89.9	90.0	86.6	76.4							121.9
(827; RAD/SEC) 6300	76.8	77.9	77.0	80.1	82.1	88.2	91.9	91.6	92.3	87.0	77.8							122.2
NFD 8823. RPM 9010	77.4	78.9	78.0	79.8	80.7	88.0	91.4	91.8	92.3	87.7	79.3							122.2
(924; RAD/SEC) 10000	78.3	79.6	80.6	83.2	85.2	90.6	93.1	93.0	93.2	89.8	80.7							125.0
NO. OF BLADES 15 12500	78.9	78.8	81.1	83.7	85.4	91.7	92.9	94.0	94.6	89.6	80.2							125.1
FAN TIP SPEED 14000	79.5	80.0	82.3	84.2	85.2	89.7	92.5	94.5	93.7	90.9	81.8							124.9
676. FT/SEC 17000	80.0	83.2	81.5	82.7	84.5	89.9	93.5	95.2	95.3	90.4	82.0							126.4
25000	81.0	82.3	79.1	83.8	83.9	88.3	92.1	99.0	95.1	90.5	84.3							126.5
31500	80.3	81.6	78.9	82.3	84.1	86.8	90.4	92.7	92.8	90.3	81.4							125.9
40000	80.6	80.7	78.6	83.3	84.2	86.3	89.0	90.7	90.1	91.9	83.1							125.8
50000	81.2	79.4	76.0	80.9	80.9	81.8	84.4	89.2	83.8	89.3	81.1							123.6
63000	78.0	76.0	73.9	75.6	75.6	76.4	78.3	80.4	78.2	84.9	74.8							120.7
80000	74.1	81.1	65.9	74.2	70.5	75.1	70.3	76.0	75.0	79.8	69.9							121.9
OVERALL MEASURED																		
OVERALL CALCULATED	99.6	95.6	93.8	95.3	96.5	102.5	104.9	105.6	105.6	102.8	94.6							137.2
PNDB	100.3	100.7	105.3	106.1	107.2	114.3	116.6	116.9	116.5	111.4	104.5							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	61.8	61.0	50.4	45.1	47.0	64.5	64.6	60.7	59.9	51.9	48.8						
(60.96 M)	100	60.2	60.2	52.4	48.3	50.2	64.0	63.3	59.5	58.4	52.8	49.4						
VEHICLE R-55	125	59.9	59.0	54.9	51.5	52.4	62.0	63.0	60.7	59.3	53.5	49.8						
CONFIG 75-1A	160	59.3	56.8	53.8	49.7	49.8	61.9	62.1	59.5	58.4	54.3	49.9						
LOC SCHENECTADY	200	57.0	55.8	52.8	48.2	49.6	62.4	62.1	58.8	58.4	53.2	50.1						
DATE 01-16-79	250	56.9	57.5	54.7	52.8	53.2	62.3	62.3	60.4	59.8	56.3	48.9						
RUN 50-0	315	57.3	58.1	54.9	52.8	52.4	61.0	62.0	58.3	57.2	54.7	46.4						
TAPE 25	400	56.4	57.4	53.7	51.8	53.0	59.6	61.3	58.4	56.9	52.9	45.9						
BAR 29.8 HG	500	56.2	55.5	53.5	50.4	50.8	58.8	60.8	58.2	56.7	53.4	46.3						
(100998. N/M2)	630	56.0	57.3	54.8	53.2	53.8	59.9	60.9	59.2	57.7	53.7	45.2						
TAMB 34. DEG F	800	54.3	56.2	54.7	52.1	53.5	58.8	60.3	59.2	57.1	53.8	44.1						
(276. DEG K)	1000	51.6	55.5	55.8	51.7	52.8	58.9	61.1	60.7	59.7	54.0	43.3						
TWET 33. DEG F	1250	53.3	55.7	55.2	53.4	55.5	61.3	62.8	61.9	60.1	54.6	45.0						
(275. DEG K)	1600	53.7	55.1	56.9	57.4	58.7	64.2	66.4	65.1	62.5	55.9	43.6						
MACH 4.56 CM/M3	2000	60.6	61.5	61.3	63.8	63.9	70.7	73.1	72.7	69.6	61.0	48.2						
(.00454 KG/M3)	2500	54.8	57.3	57.8	59.8	62.2	67.7	67.6	65.9	65.0	55.9	43.0						
NFA 7740. RPM	3150	52.0	55.8	56.3	59.6	60.7	66.7	68.3	66.7	66.0	57.0	44.0						
(810. RAD/SEC)	4000	50.6	53.6	54.3	57.2	59.3	67.2	68.8	67.2	66.4	57.0	43.9						
NFK 7902. RPM	5000	48.2	52.1	53.1	54.7	57.3	64.2	66.3	65.9	62.1	55.6	39.8						
(827. RAD/SEC)	6300	51.0	51.5	52.2	55.2	57.3	63.3	66.3	64.7	63.4	54.7	39.4						
NFD 8823. RPM	8000	48.3	51.3	51.4	53.3	54.9	61.9	64.6	63.6	61.8	53.5	38.1						
(924. RAD/SEC)	10000	47.2	50.3	52.3	53.7	57.9	63.0	64.6	65.0	62.6	52.9	35.5						
NO. OF BLADES 15	12500	45.0	46.9	50.6	53.9	55.9	61.8	62.1	62.3	58.9	48.8	29.3						
FAN TIP SPEED	16000	41.0	44.6	45.0	50.6	52.1	56.2	57.8	57.6	53.0	43.6	21.4						
676. FT/SEC	20000	35.4	41.7	42.1	44.4	46.6	51.6	53.7	52.6	48.0	37.6	9.2						
	25000	27.7	33.0	32.5	38.7	39.2	43.0	45.0	43.3	38.2	26.7							
	31500	19.2	21.2	21.8	27.1	29.5	31.5	32.6	30.1	22.1	7.7							
	40000		3.1	5.8	13.1	14.9	15.9	15.3	10.5									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		69.9	70.5	68.7	69.3	70.7	77.7	79.2	77.9	76.0	68.8	59.8						
PNDB		80.5	82.0	81.4	82.7	83.7	90.6	92.5	91.4	89.2	81.5	69.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	93. (0.92)	82. (1.08)	71. (1.25)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	63.6	65.2	66.7	68.2	68.0	69.5	72.7	74.2	76.7	80.8	85.7							115.1
100	66.9	70.7	71.9	72.0	72.5	72.8	73.3	73.8	77.8	81.9	86.9							111.3
125	74.2	77.3	78.3	75.8	77.1	76.8	78.3	79.6	80.3	82.4	86.3							113.4
160	72.9	74.7	74.9	75.3	75.3	75.8	77.8	79.0	81.5	83.6	86.7							113.4
200	72.5	73.1	73.8	74.9	76.9	78.9	79.6	80.9	82.1	84.7	87.5							114.5
250	76.2	77.8	79.1	79.6	80.1	81.1	82.3	83.3	84.4	85.9	87.3							116.4
315	77.0	78.6	76.8	79.4	79.4	80.4	81.1	81.1	82.4	83.9	86.0							115.2
400	75.7	77.0	77.5	77.8	78.3	78.7	80.5	80.8	82.0	83.1	85.4							114.3
500	73.8	75.1	75.7	76.9	77.7	78.9	80.6	81.4	82.4	83.3	84.8							114.1
630	75.7	76.3	78.3	79.3	80.1	81.6	83.5	83.6	84.1	84.2	84.0							115.9
800	76.8	77.8	78.4	79.1	80.1	81.6	83.3	83.4	83.9	84.2	83.0							115.7
1000	75.5	76.8	78.1	78.8	80.1	82.3	84.5	85.6	85.9	84.2	82.5							116.7
1250	76.8	77.1	78.1	80.2	82.0	84.6	86.6	86.7	86.9	85.0	82.9							118.1
1600	78.7	79.5	81.0	84.3	86.0	88.5	90.4	90.3	89.8	86.2	82.1							121.3
2000	86.5	87.3	87.8	91.6	92.8	95.0	97.3	98.7	96.9	92.3	87.5							125.5
2500	79.0	81.8	84.3	87.6	90.6	91.5	92.2	91.9	92.7	88.8	83.4							123.4
3150	78.5	80.6	82.6	86.4	89.3	91.2	93.0	92.4	94.0	87.6	84.2							124.1
4000	78.8	79.6	82.1	85.2	88.8	92.0	93.9	94.2	95.0	89.4	85.2							125.0
5000	73.6	75.9	78.1	81.7	85.6	89.2	91.7	90.7	90.3	86.9	81.9							121.8
6300	73.0	76.2	78.9	82.6	86.1	89.2	92.2	92.9	92.3	88.5	81.3							122.9
8000	72.9	75.9	78.5	81.6	84.2	88.7	91.7	92.8	93.3	86.9	81.8							123.0
10000	74.6	77.9	81.3	85.2	87.9	90.6	93.8	95.7	95.9	89.1	83.7							125.7
12500	74.9	78.6	82.6	87.4	90.2	92.2	93.9	96.1	95.6	89.1	83.2							125.3
16000	73.8	77.6	82.3	86.5	88.4	90.9	93.2	95.5	94.7	87.9	82.5							125.8
20000	73.0	76.9	80.8	84.7	87.0	90.4	93.5	95.9	96.3	90.1	83.0							125.7
25000	72.0	75.5	77.9	81.3	85.1	88.5	92.1	95.8	95.6	90.3	82.5							125.3
31500	70.8	74.3	76.4	80.5	83.1	86.8	90.1	93.7	93.6	88.1	80.2							125.5
40000	70.8	73.4	74.4	79.0	81.4	85.1	89.0	90.5	91.1	85.7	77.4							124.5
50000	68.2	68.2	68.5	73.4	74.2	77.8	81.9	83.2	83.1	79.5	70.4							119.1
63000	64.3	63.3	61.9	64.4	64.9	67.1	71.8	72.7	72.7	68.9	62.8							111.7
80000	62.8	60.1	59.9	64.7	64.7	65.1	65.8	69.3	66.0	64.3	64.4							112.7
OVERALL MEASURED																		
OVERALL CALCULATED	91.2	93.0	94.7	98.0	100.3	102.7	105.8	106.4	106.3	101.5	98.9							137.4
PAGE	104.5	106.0	107.1	110.3	112.1	114.4	116.5	117.2	117.2	112.9	110.1							

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	93. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	40.0	42.5	44.7	46.6	46.5	47.8	50.6	51.2	52.4	54.4	55.8						
100	43.2	48.0	49.4	50.3	50.9	51.0	51.0	50.7	53.4	55.3	56.4						
125	50.4	54.5	54.1	54.0	55.4	55.0	56.0	56.4	55.8	55.7	56.0						
160	49.0	51.8	52.3	53.4	53.5	53.9	55.4	55.8	56.9	56.8	56.3						
200	48.5	50.1	51.5	52.9	55.1	56.9	57.1	57.5	57.4	57.7	56.9						
250	52.2	54.7	56.7	57.6	58.2	59.0	57.8	59.9	59.5	58.8	56.4						
315	52.8	55.6	56.4	57.3	57.4	58.2	58.5	57.6	57.4	56.7	54.9						
400	51.4	53.7	54.9	55.6	56.2	56.5	57.8	57.1	56.9	55.7	54.1						
500	49.4	51.7	53.0	54.7	55.5	56.6	57.8	57.7	57.2	55.7	53.3						
630	51.2	52.8	55.5	57.0	57.8	59.2	60.6	59.7	58.7	56.4	52.2						
800	52.1	54.2	55.9	56.6	57.8	59.1	60.3	59.4	58.4	55.3	50.9						
1000	50.6	53.0	55.0	56.2	57.6	59.6	61.3	61.5	60.2	56.0	50.0						
1250	51.0	53.2	55.0	57.4	60.3	61.8	63.3	62.4	61.1	56.6	49.7						
1600	53.4	55.4	57.6	61.4	63.2	65.5	66.9	65.8	63.7	57.4	48.9						
2000	61.3	63.0	64.3	66.5	69.9	71.9	73.6	73.9	70.6	63.3	53.7						
2500	56.3	57.3	60.6	64.3	67.4	68.2	68.3	66.9	66.0	57.4	49.2						
3150	50.5	55.8	58.5	62.9	65.9	67.7	68.8	67.2	67.0	57.8	49.3						
4000	50.3	54.3	57.6	61.2	65.0	68.0	69.3	68.4	67.4	56.8	49.2						
5000	49.7	50.3	53.4	57.5	61.5	65.0	66.8	64.6	62.3	55.9	45.3						
6300	45.2	49.8	53.4	57.7	61.3	64.3	66.5	66.0	63.4	54.2	42.9						
8000	43.8	48.3	51.9	55.6	58.4	62.7	64.9	64.6	62.8	52.7	40.6						
10000	43.5	48.5	53.1	57.7	60.6	63.0	65.4	65.8	63.4	52.2	38.5						
12500	41.0	46.7	52.3	57.6	60.6	62.3	63.1	63.5	59.9	48.3	32.3						
16000	35.2	41.6	46.0	53.1	55.3	57.4	58.5	58.6	54.0	40.6	22.1						
20000	28.4	35.5	41.4	48.4	49.1	52.1	54.7	54.4	49.0	34.4	10.2						
25000	19.7	26.0	31.3	38.2	40.5	43.3	45.0	44.3	38.7	22.4							
31500	9.7	13.7	19.3	25.4	28.5	31.5	32.3	31.1	22.8	2.4							
40000			1.9	8.9	12.1	14.7	15.8	10.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	69.5	68.1	70.1	73.4	75.6	77.6	79.0	78.6	76.6	70.5	66.5						
PNDB	78.8	81.3	83.3	86.9	88.8	90.8	92.4	92.1	89.9	83.3	79.6						

SIDELINE 200. FT, (60.96 M)
VEHICLE R-55
CONFIG 75-1A
LOC SCHENECTADY
DATE 01-16-75
RUN 50-7
TAPE 25
BAR 29.8 HG (00698. N/M2)
TAMB 38. DEG F (276. DEG K)
TWET 35. DEG F (275. DEG K)
HACT 4.56 GM/M3 (.00459 KG/M3)
NFA 7734. RPM (810. RAD/SEC)
NFK 7695. RPM (827. RAD/SEC)
NFD 8829. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 675. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	133, (2.32)	145, (2.52)	154, (2.73)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	PWL
50																		
63																		
RADIAL 17. FT, 80	66.9	68.9	72.5	74.7	75.2	74.2	71.2	68.5	69.8	72.1	74.7							106.5
(5. M) 100	70.9	73.0	76.3	78.8	79.5	78.5	75.0	68.3	71.5	74.6	76.5							110.3
VEHICLE R-55 125	66.7	67.8	70.1	69.3	73.6	68.6	67.8	70.3	71.1	71.4	75.3							104.7
CONFIG 75-1A 160	66.2	64.7	65.0	66.3	67.0	67.0	68.5	69.5	71.0	72.4	75.0							103.1
LOC SCHENECTADY 200	67.7	63.1	64.3	67.1	68.4	70.1	70.5	71.9	72.4	74.2	76.0							104.7
DATE 01-16-75 250	67.7	66.6	68.3	69.1	69.6	70.1	71.1	71.6	72.6	73.4	75.3							105.0
RUN 50-6 315	69.0	69.1	69.3	70.4	70.6	71.1	71.3	71.1	71.9	74.7	73.8							105.1
TAPE 25 400	67.4	67.2	67.5	69.0	69.8	70.2	71.0	71.5	72.0	72.6	75.4							104.8
BAR 29.8 HG 500	66.1	66.6	66.9	68.9	69.7	70.9	72.1	72.9	73.4	74.3	74.1							105.3
(00698, N/M2) 630	68.5	69.3	70.6	71.8	73.3	74.3	76.0	76.4	76.4	76.2	75.3							108.3
TAMB 37, DEG F 800	69.5	70.1	70.1	71.9	73.1	73.9	75.1	76.2	76.4	76.2	75.3							109.1
(276, DEG K) 1000	69.0	69.9	70.1	71.1	73.8	75.0	77.5	79.1	79.9	79.4	74.7							110.2
THET 39, DEG F 1250	76.5	75.1	73.6	78.2	80.9	83.1	85.3	86.2	86.2	87.0	79.8							117.3
(275, DEG K) 1600	79.2	72.5	75.7	77.6	80.0	82.2	84.2	84.3	83.8	82.9	77.6							115.4
RHOT 4.84 GM/M3 2000	73.3	72.3	74.8	78.6	80.6	82.5	83.5	83.7	83.2	81.8	77.0							115.1
(.00448 KG/M3) 2500	73.0	73.5	77.0	79.6	82.8	85.7	86.9	87.6	89.9	87.3	82.4							119.3
NFA 5414, RPM 3150	70.0	72.1	73.3	77.4	80.8	83.2	84.5	85.2	86.7	84.3	79.2							116.6
(567, RAD/SEC) 4000	68.3	68.3	70.0	73.2	77.3	80.5	83.4	82.7	84.2	82.1	75.7							114.1
NFK 5533, RPM 5000	65.1	65.4	67.3	70.9	75.1	78.7	82.4	82.4	81.5	80.4	74.1							112.8
(579, RAD/SEC) 6300	64.7	66.1	68.1	70.6	74.3	78.0	80.9	82.1	82.8	81.0	74.0							112.7
NFD 8823, RPM 8000	65.6	67.0	70.7	73.8	77.2	80.9	82.7	83.5	84.5	82.4	75.3							114.6
(924, RAD/SEC) 10080	77.8	80.1	84.3	88.2	91.6	96.3	96.0	91.9	90.1	87.3	80.6							126.2
NO. OF BLADES 15 12500	67.9	70.3	73.5	78.4	81.6	84.4	86.6	86.3	87.5	84.3	75.7							118.2
FAN TIP SPEED 16000	64.7	66.5	69.5	73.2	76.1	78.6	82.4	83.1	85.8	83.1	73.9							115.8
473, FT/SEC 20000	65.1	65.3	67.2	70.8	74.7	78.6	80.7	83.1	86.0	83.0	73.9							115.4
25000	69.8	62.9	63.6	68.1	71.2	74.5	77.6	80.5	82.3	80.6	72.3							112.9
31500	65.3	63.2	63.1	68.5	70.6	73.3	76.9	79.6	81.0	78.0	69.9							112.6
40000	66.9	62.4	61.4	67.5	69.7	71.9	75.3	77.5	79.6	75.7	68.1							112.3
50000	66.3	59.0	57.8	64.7	65.5	66.9	70.0	70.8	71.7	70.8	65.9							108.3
63000	63.5	55.7	54.1	61.5	61.3	61.5	63.5	63.6	63.4	63.1	61.0							104.8
80000	63.1	58.4	56.2	65.0	65.0	65.4	66.0	69.2	64.0	64.5	64.6							111.6
OVERALL MEASURED																		
OVERALL CALCULATED	84.9	85.3	88.0	91.5	94.5	98.1	98.7	97.5	98.0	96.1	90.9							130.1
PNDB	90.0	96.4	99.0	102.3	105.3	108.7	109.4	106.7	110.0	108.2	103.8							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	43.3	46.3	50.4	53.1	53.7	52.5	49.1	43.5	44.7	42.6	44.8						
100	47.2	50.2	54.2	57.1	57.9	56.8	52.8	45.2	47.1	46.1	46.4						
125	42.9	44.2	47.9	47.5	51.9	46.8	45.5	47.2	48.6	44.7	45.8						
160	42.3	41.6	42.8	44.4	49.3	45.1	46.1	46.3	46.4	45.5	44.5						
200	43.8	46.1	42.8	45.2	46.6	48.1	47.9	48.5	47.6	47.2	45.4						
250	43.7	43.7	45.9	47.1	47.7	46.0	46.6	46.2	47.8	46.3	44.4						
315	44.8	45.9	46.9	46.3	46.6	49.0	46.7	47.8	46.9	45.4	42.7						
400	43.1	43.9	44.9	46.8	47.7	46.0	46.3	47.9	46.9	45.2	44.1						
500	41.7	43.2	44.2	46.7	47.5	46.6	49.3	49.2	46.2	46.7	42.5						
630	44.0	45.6	47.8	49.5	51.1	51.9	53.1	52.5	51.0	48.4	43.4						
800	44.8	46.5	47.2	49.4	50.8	51.3	52.0	52.2	50.9	48.3	43.1						
1000	44.1	45.8	47.0	48.5	51.3	53.1	54.3	55.0	54.2	51.2	42.3						
1250	51.5	51.2	50.5	55.4	58.3	60.3	62.0	61.9	60.3	58.6	47.0						
1600	47.9	48.4	50.4	54.9	57.2	59.2	60.7	59.8	57.7	54.2	44.4						
2000	47.8	48.0	51.3	55.5	57.6	59.4	59.8	58.9	56.8	52.7	43.2						
2500	47.5	49.0	53.3	56.3	59.7	62.4	63.1	62.7	63.3	57.9	48.2						
3150	44.0	47.3	49.3	53.9	57.4	59.6	60.3	59.9	59.7	54.5	44.3						
4000	41.7	43.0	45.8	49.2	53.5	56.5	56.8	56.9	56.6	51.5	39.7						
5000	35.2	39.8	42.0	46.7	51.0	54.4	57.5	56.4	53.6	49.4	37.5						
6300	37.8	39.3	42.8	45.7	49.5	53.8	55.2	55.2	53.9	48.7	35.6						
8000	36.5	40.2	44.1	47.8	51.3	54.9	55.9	55.3	54.1	48.2	34.8						
10000	40.7	50.7	56.1	60.7	64.3	68.7	67.6	62.0	57.6	50.4	35.4						
12500	34.0	38.4	43.0	48.6	52.1	54.5	55.8	53.7	51.9	43.5	24.7						
16000	26.2	30.5	34.1	39.7	43.0	45.1	47.7	48.3	45.2	35.8	13.6						
20000	19.5	23.9	27.8	32.6	36.8	40.2	40.9	40.5	38.6	27.3	1.1						
25000	11.5	13.6	17.1	23.0	26.5	29.3	30.5	29.8	25.5	12.7							
31500		2.0	6.0	12.3	16.0	18.0	19.1	17.1	10.3								
40000					0.4	1.5	1.6										
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.6	60.0	62.9	66.5	69.3	72.0	72.1	70.3	69.1	65.1	57.3						
PNDB	69.8	71.4	74.7	78.0	81.8	83.4	84.2	83.4	83.0	78.4	69.4						

SIDELINE 200. FT, (60.96 M)
VEHICLE R-55
CONFIG 75-1A
LOC SCHENECTADY
DATE 01-16-75
RUN 58-d
TAPE 25
BAR 29.8 HG (00498; N/M2)
TAMB 37; DEG F (276; DEG K)
TWET 35; DEG F (279; DEG K)
WACT 4.84 GM/M3 (.00444 KG/M3)
NFA 5414. RPM (567; RAD/SEC)
NFK 5533. RPM (579; RAD/SEC)
NFD 8823. RPM (924; RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 473. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	68.6	70.9	47.0	74.7	79.5	74.2	71.7	66.5	68.7	71.8	72.7							106.2
100	72.9	75.5	47.3	79.5	80.0	79.3	75.8	68.5	71.8	74.4	74.9							110.5
125	67.0	69.3	46.6	67.1	71.6	67.6	67.8	70.8	71.3	71.7	72.8							103.6
160	65.2	68.7	48.5	65.5	65.5	65.8	68.0	69.0	70.8	72.6	73.0							102.5
200	66.0	70.1	51.4	65.1	66.4	68.1	69.6	71.1	72.1	73.9	74.8							104.0
250	68.2	69.5	48.3	68.1	69.1	69.6	71.3	71.1	71.9	72.9	73.3							104.3
315	69.7	72.3	48.3	70.1	70.4	71.1	70.8	70.6	71.9	72.4	71.8							104.3
400	68.7	70.4	48.3	68.8	69.3	70.0	70.5	71.0	71.5	72.1	71.9							104.1
500	70.3	70.6	46.2	68.2	68.9	69.9	71.4	71.9	72.4	73.8	72.3							104.8
630	70.2	71.3	46.0	71.3	72.1	73.1	74.3	74.9	75.4	75.4	72.5							107.1
800	70.0	70.0	46.4	69.9	71.1	72.4	74.1	75.2	76.2	76.2	71.5							107.0
1000	69.7	69.8	46.6	71.1	72.6	75.5	77.3	78.1	79.1	78.9	72.0							109.8
1250	70.3	73.1	46.8	76.7	79.4	81.9	83.8	84.9	85.7	86.0	77.5							116.3
1600	73.7	73.7	46.8	75.3	77.5	79.7	81.7	82.1	82.3	81.9	74.4							113.4
2000	72.8	71.6	46.7	73.1	75.6	78.0	80.3	80.4	80.4	80.8	74.5							111.8
2500	73.5	70.3	46.7	72.4	75.3	78.0	79.4	80.9	83.2	81.8	74.7							112.4
3150	80.3	72.1	46.7	70.7	73.1	76.7	78.0	79.4	81.7	79.9	71.9							110.9
4000	74.6	76.1	46.7	71.4	75.3	79.5	81.4	81.7	83.0	82.9	74.4							113.4
5000	80.8	71.9	46.7	70.4	74.3	79.7	82.9	83.7	84.0	82.1	73.9							114.1
6300	80.5	71.4	46.7	71.1	75.1	79.7	82.7	84.4	85.3	84.8	74.6							114.6
8000	80.4	74.4	47.1	71.3	76.0	80.2	82.9	84.0	85.0	81.7	73.8							114.7
10000	80.1	73.9	47.1	72.5	76.7	80.8	83.6	85.2	86.4	82.8	75.2							115.8
12500	84.9	74.6	47.1	69.7	74.9	78.2	81.9	83.3	85.3	81.4	72.7							114.5
16000	84.3	86.1	47.1	70.8	74.7	77.9	81.2	84.0	84.7	80.9	71.8							114.4
20000	84.5	86.2	48.1	67.2	72.8	77.4	80.0	82.4	85.0	82.4	70.7							114.5
25000	84.8	86.3	47.1	63.5	69.4	74.0	77.6	80.2	82.1	82.5	69.3							113.0
31500	85.3	86.3	45.1	63.8	68.6	73.1	76.9	79.4	81.1	80.6	67.7							112.8
40000	87.3	88.7	45.1	62.0	66.4	71.1	74.5	77.0	78.9	79.4	64.1							112.3
50000	86.2	88.9	46.1	57.4	60.4	64.3	68.2	69.4	70.8	75.3	59.9							108.5
63000	83.5	86.3	49.0	52.9	53.6	55.6	56.8	59.7	60.7	64.4	53.3							103.5
80000	87.8	88.1	55.0	54.7	54.7	55.1	55.8	55.0	54.7	59.8	54.4							109.2
OVERALL MEASURED																		
OVERALL CALCULATED	85.4	86.5	62.9	86.6	88.8	91.5	93.7	95.0	96.2	94.7	87.7							120.6
PNDB	96.6	99.0	71.8	97.1	100.0	103.2	105.3	106.0	106.9	105.2	99.4							

NG

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

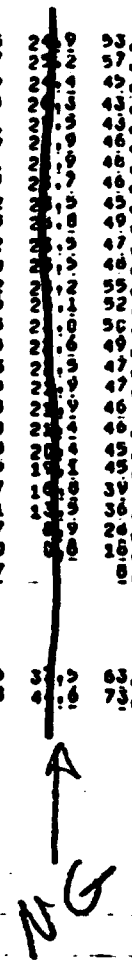
PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	55. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	45.0	48.5	24.9	53.1	54.0	52.5	49.6	46.5	44.4	43.4	42.8						
100	49.2	52.7	25.2	57.8	58.4	57.5	53.5	49.5	47.4	47.8	44.4						
125	48.2	46.5	24.4	45.3	49.9	45.8	45.5	47.7	46.8	45.8	42.9						
160	41.3	45.8	26.3	43.7	48.8	43.9	45.4	45.8	46.2	43.8	42.5						
200	42.0	47.1	25.5	43.2	44.6	46.1	47.1	47.8	47.4	47.8	44.1						
250	44.2	46.5	27.9	46.1	47.2	47.5	48.8	47.7	47.8	45.8	42.4						
315	45.6	49.1	29.9	48.0	48.4	49.8	46.2	47.1	46.9	43.2	40.7						
400	44.4	46.9	29.7	46.6	47.2	47.8	47.8	47.4	46.4	44.7	40.6						
500	45.9	47.2	28.5	45.9	46.8	47.6	48.6	48.2	47.2	46.2	40.8						
630	43.7	47.3	28.8	49.0	49.8	50.7	51.4	51.0	50.0	47.7	40.7						
800	45.3	47.2	28.9	47.4	48.8	49.8	51.0	51.2	50.6	48.3	39.4						
1000	50.9	46.0	28.5	48.5	50.1	52.9	54.1	54.0	53.4	50.7	39.5						
1250	53.3	51.2	29.2	55.9	56.8	59.1	60.5	60.6	59.8	57.6	44.7						
1600	50.4	49.8	29.1	52.4	54.7	56.7	58.2	57.6	56.2	53.2	41.1						
2000	47.3	47.3	29.0	50.0	52.6	54.9	56.6	55.7	54.1	51.8	40.7						
2500	47.8	45.4	29.6	49.1	52.2	54.7	55.6	55.9	54.5	52.4	40.5						
3150	49.3	47.3	29.9	47.1	49.7	53.2	53.8	54.2	54.7	50.8	37.0						
4000	48.8	50.5	29.9	47.5	51.5	55.5	56.8	55.9	55.4	52.3	38.4						
5000	48.0	48.3	29.9	48.2	50.3	55.5	58.1	57.6	56.1	51.1	37.3						
6300	38.7	45.0	29.4	48.2	50.3	54.8	57.0	57.5	56.4	49.7	36.1						
8000	37.3	46.8	28.4	45.3	50.1	54.2	56.1	55.9	54.6	47.5	32.6						
10000	39.0	44.5	28.1	45.0	49.4	53.2	55.1	55.3	53.9	45.9	30.0						
12500	31.9	42.7	16.8	39.9	45.4	48.3	51.1	50.8	49.7	40.5	21.8						
15000	29.7	38.1	14.5	36.6	41.6	44.4	46.5	47.1	44.0	33.6	11.4						
20000	19.9	24.7	8.9	26.9	34.9	39.1	40.2	39.9	37.7	26.6							
25000	11.5	17.0	8.8	16.4	24.7	28.8	30.5	29.6	25.2	13.7							
31500		5.7		8.6	14.8	17.7	19.1	18.9	16.3								
40000						0.7	0.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.8	61.5	37.5	63.6	65.3	67.1	68.2	67.9	67.1	63.6	54.9						
PNDB	70.5	73.8	44.6	73.4	76.2	79.3	80.6	80.4	79.4	75.9	64.2						

MODEL SCHEMATIC



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 4 DAY 29 HR. 20.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	93. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	64.1	61.9	62.7	66.5	65.7	64.5	67.7	68.7	70.5	73.8	78.4							103.8
100	74.4	75.2	72.8	73.3	71.3	69.8	69.8	69.3	72.5	75.6	79.7							107.6
125	70.2	70.5	72.6	71.1	73.8	70.6	71.3	73.8	74.3	75.9	79.3							107.5
160	78.7	69.0	69.3	70.5	70.0	70.0	72.3	73.5	75.8	76.8	79.8							107.1
200	68.0	68.6	69.6	69.6	71.6	73.1	73.8	75.4	76.6	78.4	80.5							108.5
250	72.0	71.5	72.1	72.6	73.6	73.3	74.8	74.8	76.1	77.2	79.3							108.7
315	72.7	73.1	73.1	73.9	74.6	74.4	74.6	74.9	75.6	76.9	78.3							108.9
400	70.9	71.2	71.5	72.5	73.3	73.2	74.2	75.0	75.8	76.6	78.2							108.2
500	69.6	70.4	70.9	71.9	72.7	73.7	75.1	75.9	76.7	77.3	78.3							109.6
630	73.0	72.5	73.8	74.8	75.3	76.8	78.3	78.1	78.4	78.2	77.5							110.6
800	71.0	72.3	72.6	73.6	74.6	75.6	77.6	78.2	78.7	78.8	76.8							110.1
1000	71.5	72.5	72.8	75.1	76.1	78.0	80.8	81.1	82.1	80.7	77.8							112.4
1250	72.8	73.1	74.9	76.7	78.6	80.1	82.3	82.7	83.4	82.5	77.3							114.2
1600	73.7	81.2	81.7	83.8	86.7	86.7	86.7	89.3	89.1	89.2	81.9							123.8
2000	74.0	73.0	74.8	77.1	79.3	81.5	83.5	83.7	84.7	83.8	78.5							115.2
2500	70.2	71.0	72.3	74.8	77.3	79.5	81.4	82.6	83.7	80.5	75.7							113.5
3150	71.3	73.1	74.1	76.2	79.1	82.0	85.5	85.2	86.7	82.6	78.4							116.9
4000	68.8	69.3	71.5	74.4	78.8	82.5	83.7	83.2	85.5	82.6	77.7							115.2
5000	70.6	70.9	73.0	77.2	79.8	83.7	86.7	87.7	88.9	84.6	79.1							117.9
6300	70.8	71.9	73.6	75.8	80.3	84.0	86.9	86.1	89.3	84.2	79.8							118.5
8000	69.1	71.3	73.7	76.3	80.7	84.2	87.9	88.7	89.8	84.7	79.0							119.8
10000	69.5	71.3	74.0	77.7	81.6	85.3	87.8	89.7	90.4	86.1	79.4							120.8
12500	68.8	70.0	72.3	75.6	79.9	82.0	86.9	89.3	89.0	85.6	77.9							119.1
16000	67.7	69.2	71.5	75.9	79.9	82.4	85.6	88.6	88.6	86.4	76.9							119.3
20000	66.6	68.8	69.9	73.8	78.4	82.3	85.4	88.8	90.0	87.0	77.1							119.8
25000	66.8	67.8	67.9	71.1	75.2	79.5	82.9	85.7	87.6	86.1	75.8							118.1
31500	65.8	67.7	67.1	70.8	74.3	78.3	81.4	84.4	85.8	83.3	73.2							117.3
40000	67.4	66.7	67.1	69.5	72.5	76.4	80.3	82.2	83.4	80.2	70.6							115.6
50000	66.6	66.0	64.8	66.2	66.8	69.9	74.0	75.5	75.9	74.6	66.4							112.1
63000	63.7	63.7	61.9	61.8	61.8	62.5	65.0	65.8	65.9	65.3	61.7							106.8
80000	66.1	68.4	66.2	65.0	65.0	65.4	66.0	65.2	64.8	64.5	64.0							112.7
OVERALL MEASURED																		
OVERALL CALCULATED																		
PNDB	90.0	99.1	100.0	102.1	104.7	106.5	109.0	109.7	111.2	106.1	104.0							130.6

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.75)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	39.5	39.3	40.7	44.8	44.2	42.8	45.0	43.7	46.2	47.4	48.5						
(60.96 M)	100	50.7	52.5	50.7	51.6	49.7	48.8	47.5	46.2	46.1	49.1	49.7						
VEHICLE 8-55	125	46.4	47.5	50.4	49.3	52.2	48.8	49.8	50.7	49.8	49.2	49.8						
CONFIG 75-18	160	46.8	46.1	47.8	48.7	48.3	48.1	49.9	50.3	50.4	49.8	48.5						
LOC SCHENECTADY	200	46.8	45.6	47.3	47.7	49.8	51.1	51.4	52.8	51.9	51.5	49.9						
DATE 01-16-75	250	47.9	48.2	49.7	50.6	51.7	51.3	52.3	51.4	51.3	50.1	48.4						
RUN 51-2	315	48.6	49.9	50.6	51.8	52.6	52.2	52.8	51.3	50.7	49.7	47.2						
TAPE 29	400	48.6	47.9	48.9	50.3	51.2	51.8	51.5	51.4	50.7	49.2	46.9						
BAR 29.8 HG	500	45.2	47.8	46.2	49.7	50.5	51.3	52.3	52.2	51.5	49.7	46.8						
(88698; N/M2)	630	48.5	49.8	51.8	52.5	53.1	54.4	55.4	54.2	53.8	50.4	45.7						
TAMB 37; DEG F	800	48.3	48.7	49.7	51.1	52.3	53.1	54.5	54.2	51.1	50.8	44.6						
(276; DEG K)	1000	48.8	48.8	49.5	50.5	51.6	55.4	56.8	57.8	56.4	54.5	44.5						
TWET 35; DEG F	1250	47.8	49.2	51.7	53.7	56.8	57.5	59.8	58.4	57.6	56.1	44.5						
(275; DEG K)	1600	56.4	57.1	58.4	60.9	64.8	65.7	65.2	64.8	63.8	60.4	48.6						
HACT 4.84 G/M3	2000	48.8	49.3	51.3	54.8	56.4	58.4	59.8	58.9	59.3	56.8	44.7						
(.00494 KG/M3)	2530	49.6	48.5	49.8	51.6	54.2	56.2	57.6	57.7	57.8	51.2	41.5						
NFA 8211. RPM	3150	49.3	48.3	50.8	52.6	55.7	58.4	61.3	59.9	61.7	52.7	43.5						
(860; RAD/SEC)	4000	48.2	48.5	47.1	50.4	53.8	58.5	59.1	57.4	57.9	54.8	41.7						
NFA 6347. RPM	5000	48.9	45.3	48.6	53.8	55.8	59.4	61.8	61.6	60.1	56.6	42.5						
(665; RAD/SEC)	6300	48.2	45.5	48.1	50.9	55.5	59.8	61.2	61.2	60.4	51.9	40.6						
NFD 8824. RPM	8000	48.8	43.7	47.1	50.3	54.8	58.1	61.1	60.6	58.6	50.5	37.8						
(924; RAD/SEC)	10000	38.4	42.8	45.8	50.2	54.3	57.7	59.4	59.7	57.8	49.2	34.2						
NO. OF BLADES 15	12500	34.7	38.1	41.7	45.8	50.3	52.8	56.1	56.7	53.4	46.7	27.8						
FAN TIP SPEED	16000	29.2	33.2	37.1	42.5	46.7	48.9	51.8	51.8	47.9	39.1	16.6						
542. FT/SEC	20000	22.8	27.4	30.5	35.6	40.5	44.8	45.4	40.8	42.6	31.3	4.4						
	25000	15.9	18.6	21.3	26.8	30.5	34.3	35.8	35.1	30.7	18.2							
	31500		7.1	10.8	15.6	19.8	23.8	23.6	21.9	15.8								
	40000					3.1	6.8	6.6	2.1									
	50000																	
	63040																	
	80000																	
OVERALL CALCULATED		60.7	62.9	63.9	66.1	68.7	70.1	71.9	71.5	70.6	65.9	59.8						
	PNDB	74.1	74.4	76.1	78.6	81.4	82.6	84.9	84.0	84.0	78.9	69.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	33. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.68)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	63.6	63.7	64.7	65.5	66.5	67.5	70.8	72.8	74.8	77.6	81.9							106.9
(9. M)	100	67.7	73.5	73.8	72.8	71.5	71.3	78.5	71.5	75.3	78.9	83.0							109.9
VEHICLE 9-55	125	74.7	80.8	80.8	78.3	77.3	75.1	74.1	77.3	78.8	79.9	83.3							112.8
CONFIG 75-19	160	78.9	71.5	71.3	72.5	72.5	72.8	75.8	76.3	78.3	80.4	83.2							110.3
LOC SCHENECTADY	200	70.7	70.3	71.1	72.1	74.4	75.4	76.8	76.1	79.9	81.4	84.8							111.4
DATE 81-10-75	250	73.7	74.3	75.3	76.1	76.8	76.8	76.3	78.8	80.4	81.2	83.8							112.5
RUN 5:-3	315	75.2	76.1	76.6	76.9	77.4	77.4	77.8	77.9	79.4	80.4	82.3							112.2
TAPE 25	400	74.4	74.2	74.5	75.3	75.3	76.2	77.2	77.3	78.8	80.4	81.4							111.2
BAR 29.0 HG	500	72.3	72.9	73.2	74.7	75.9	76.7	77.9	78.7	79.7	80.5	81.1							111.5
(98694; N/M2)	630	74.5	75.3	76.1	77.1	77.8	79.3	80.5	80.9	81.6	82.9	83.5							113.3
TAMB 35; DEG F	800	74.8	76.3	75.4	76.6	77.9	78.4	80.3	80.4	80.9	80.7	79.5							112.8
(274; DEG K)	1000	73.5	76.4	75.3	77.1	78.3	81.8	82.8	82.6	83.6	82.4	79.7							114.5
TWET 35; DEG F	1250	74.5	77.3	76.8	78.7	80.4	82.4	83.8	83.9	84.9	83.5	80.8							115.6
(279; DEG K)	1600	79.2	81.9	80.5	83.8	86.5	88.2	89.4	89.8	90.1	88.7	83.9							121.3
HACT 4.94 G-M/M3	2000	78.0	78.8	79.3	82.1	84.8	86.5	88.5	89.4	89.2	87.8	83.0							120.3
(.00459 KG/M3)	2500	73.7	74.5	75.8	78.4	80.8	83.5	84.9	84.9	84.4	82.3	78.7							116.3
NFA 6973. RPM	3150	73.3	75.3	76.1	78.9	82.3	86.8	87.8	87.2	90.7	86.6	79.7							119.2
(730; RAD/SEC)	4000	72.6	74.1	75.6	79.2	82.8	87.8	87.9	86.2	89.5	86.9	80.4							119.1
NFA 7119. RPM	4010	74.1	73.9	75.8	78.9	84.1	87.7	91.2	91.2	91.3	89.4	81.4							121.5
(745; RAD/SEC)	5000	72.8	73.9	76.1	78.9	83.1	87.5	89.9	90.9	92.1	89.5	80.6							121.4
NFB 8823. RPM	8000	72.4	74.8	76.5	79.8	83.7	88.2	90.7	92.8	92.5	89.9	81.6							122.2
(924; RAD/SEC)	10000	72.8	75.1	77.3	81.7	85.7	88.8	92.1	93.8	94.2	90.1	82.2							123.6
NO. OF BLADES 15	12500	71.4	73.8	75.8	79.9	84.4	88.7	90.2	92.1	92.6	87.4	80.3							122.4
FAN TIP SPEED	14000	70.3	72.3	75.3	79.5	83.2	86.7	89.7	92.8	91.7	87.7	79.8							122.3
889. FT/SEC	20000	70.2	72.7	74.8	79.2	81.8	86.4	90.6	91.9	93.3	89.9	79.7							123.4
	25000	69.8	73.3	71.4	75.3	86.4	84.8	87.9	90.2	91.8	90.3	78.8							122.5
	31500	67.6	70.3	70.9	73.8	78.9	82.6	86.4	89.2	90.3	87.3	76.9							121.9
	40000	66.6	70.4	68.8	73.3	77.2	80.3	84.5	86.7	87.4	85.2	73.6							120.8
	50000	66.7	68.2	65.7	67.6	70.4	73.8	77.9	79.2	79.6	76.8	68.4							119.6
	63000	63.8	64.5	61.9	61.9	63.1	65.1	67.8	68.9	68.9	66.7	62.1							109.8
	80000	67.8	68.1	65.9	64.7	64.7	65.1	65.8	65.8	63.7	63.3	64.4							112.9
OVERALL MEASURED																			
OVERALL CALCULATED		87.9	89.9	90.4	92.8	99.8	98.8	101.3	102.4	103.4	99.9	95.9							133.8
	PNDB	97.6	101.8	101.6	104.1	107.2	110.2	112.5	112.8	113.8	110.1	106.6							

ORIGINAL PAGE IS
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	33. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	149. (2.92)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT, 80	40.8	41.8	42.7	43.8	45.8	45.8	47.8	47.8	49.7	51.1	52.8						
(60.96 M) 100	44.8	50.7	51.7	50.3	49.9	49.5	48.3	48.5	50.9	52.3	52.9						
VEHICLE A-55 125	50.9	50.8	50.6	54.5	55.7	53.3	51.8	54.2	54.3	53.2	53.8						
CONFIG 75-17 160	47.8	48.6	49.8	50.7	50.8	50.9	52.6	53.0	53.7	53.5	52.8						
LOC SCHENECTADY 200	46.8	47.3	48.8	50.2	51.6	53.4	54.4	54.8	55.1	54.8	53.9						
DATE 01-16-75 250	48.7	51.2	52.9	54.1	55.8	54.8	55.8	55.4	55.5	54.1	52.9						
RUN 51-3 315	51.1	52.9	54.1	54.8	55.4	55.2	55.2	54.3	54.4	53.2	51.4						
TAPE 25 400	49.1	50.9	51.9	53.1	53.2	54.8	54.5	54.6	53.7	52.8	50.1						
BAR 29.8 HG 500	47.9	49.5	50.5	52.4	53.8	54.3	55.1	55.0	54.5	52.9	49.5						
(98698; N/M2) 630	50.0	51.8	53.3	54.7	55.6	56.9	57.6	57.8	56.2	54.2	48.7						
TAMB 35; DEG F 800	49.3	52.7	52.9	54.1	55.5	55.8	57.3	56.4	55.4	52.8	47.4						
(276; DEG K) 1000	48.6	53.8	52.3	54.5	55.8	56.4	56.8	56.5	57.9	54.2	47.3						
TWET 35; DEG F 1250	47.5	53.4	53.5	55.9	57.8	59.6	60.5	59.6	59.1	55.1	47.2						
(279; DEG K) 1600	53.9	56.9	57.4	60.9	63.7	65.2	65.9	65.3	64.8	59.9	56.6						
HACT 4.96 GM/M3 2000	52.6	54.5	55.8	57.8	61.9	63.4	64.8	64.7	62.8	58.8	49.2						
(.00459 KG/M3) 2500	48.1	50.8	52.1	55.1	57.7	60.2	60.1	59.9	58.8	52.9	44.3						
NFA 6973. RPM 3150	47.3	50.3	52.0	55.4	58.0	62.4	62.8	61.9	63.7	54.8	44.8						
(730; RAD/SEC) 4000	49.8	48.8	51.4	55.2	59.8	63.8	63.3	60.4	61.9	54.3	44.4						
NFX 7117. RPM 5000	48.2	48.3	50.6	54.7	60.8	63.5	64.3	63.1	63.3	55.4	44.8						
(745; RAD/SEC) 6300	49.8	47.9	50.7	53.9	58.3	62.5	64.3	64.8	63.2	54.2	42.1						
NFB 8823. RPM 8000	44.3	47.8	49.9	53.8	57.9	62.2	63.9	63.9	62.1	52.7	40.3						
(924; RAD/SEC) 10000	41.7	45.8	48.1	52.2	56.4	61.2	63.6	63.8	61.6	51.2	37.8						
NO. OF BLADES 15 12500	37.5	41.9	45.3	50.1	54.9	58.8	59.4	57.5	56.9	49.5	29.9						
FAN TIP SPEED 16000	31.7	36.3	41.0	46.1	50.1	53.2	55.0	53.1	51.8	40.4	19.4						
600. FT/SEC 20000	23.6	31.2	35.4	40.9	45.1	48.1	50.2	49.4	46.8	34.1	6.9						
25000	15.5	21.9	24.8	30.2	35.7	38.8	40.8	39.6	35.8	22.4							
31500	1.7	9.4	13.2	17.9	24.3	27.2	28.8	28.0	19.8	1.7							
40000				3.1	7.9	9.9	10.8	6.5									
50300																	
63000																	
80000																	
OVERALL CALCULATED	62.2	65.4	66.4	68.6	71.2	73.5	74.8	74.2	73.3	68.8	63.2						
PNDB	74.7	76.4	77.7	80.6	83.4	84.3	87.9	87.8	84.4	80.2	72.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	64.4	65.4	67.2	67.7	68.7	70.2	73.2	74.7	76.7	80.8	85.2							109.9
(5. M)	100	67.9	71.2	72.5	72.3	73.3	73.8	74.0	74.3	78.3	82.4	87.2							111.9
VEHICLE R-55	125	73.5	77.8	76.8	76.3	77.1	77.8	78.8	80.1	80.6	82.9	87.0							114.0
CONFIG 75-18	160	73.9	74.2	74.8	75.3	75.0	75.5	78.3	79.3	81.5	83.6	87.0							113.5
LOC SCHENECTADY	200	73.0	73.1	73.6	74.6	76.6	78.6	79.6	80.9	82.6	85.4	87.8							114.7
DATE 01-16-75	250	77.7	77.5	79.1	79.6	80.1	81.6	82.6	83.6	84.0	86.7	88.0							116.8
RUN 51-4	315	76.0	76.6	79.1	79.4	79.9	80.4	80.8	81.1	82.1	83.7	86.0							115.2
TAPE 25	400	70.7	77.2	77.3	77.8	78.8	79.2	80.5	80.8	82.0	83.9	85.2							114.5
BAR 29.8 HG	500	75.6	75.4	76.4	77.4	78.4	79.4	81.1	81.7	82.7	84.3	84.8							114.6
(00698; N/M2)	630	77.2	77.0	78.1	79.3	80.3	81.1	83.0	83.4	83.9	83.9	84.0							115.7
TAMB 38; DEG F	800	76.5	76.8	78.4	79.6	80.1	81.1	82.1	83.4	83.9	84.0	83.3							115.5
(276; DEG K)	1000	78.2	77.3	78.6	79.6	80.3	82.5	84.0	84.6	85.9	84.2	82.7							116.6
TWET 35; DEG F	1250	77.5	76.6	79.1	80.2	82.4	83.9	85.3	85.7	86.7	84.5	82.3							117.5
(275; DEG K)	1600	79.2	79.2	80.5	82.0	84.2	86.0	87.9	88.6	88.8	85.2	81.9							119.6
HACT 4.54 GM/M3	2000	84.0	84.1	85.8	87.4	88.8	91.5	94.3	95.9	96.7	90.6	87.2							126.1
(.00454 KG/M3)	2500	77.2	78.0	81.3	82.6	84.6	85.7	86.9	88.4	89.7	84.5	81.4							119.5
NFA 7746. RPM	3150	75.5	76.3	79.6	81.2	83.8	86.2	87.2	88.9	91.0	85.1	80.9							119.9
(811; RAD/SEC)	4000	75.8	77.9	79.8	83.2	86.8	90.2	90.9	90.9	92.7	88.4	83.4							122.6
NFA 7908. RPM	5000	74.8	75.4	77.6	80.7	84.8	89.7	91.9	92.4	93.5	87.9	83.2							123.0
(828; RAD/SEC)	6300	76.3	77.9	80.4	83.1	86.6	91.0	94.4	94.9	95.8	89.0	83.6							125.2
NFB 8823. RPM	8000	75.7	77.1	79.7	83.6	86.7	91.0	93.4	95.0	95.0	86.7	84.1							124.9
(924; RAD/SEC)	10000	75.8	78.4	81.1	85.0	88.9	91.8	94.6	96.7	96.2	90.1	84.2							126.4
NO. OF BLADES 15	12500	74.9	76.6	79.6	84.4	87.7	90.7	93.4	95.6	95.6	89.6	83.0							125.6
FAN TIP SPEED	16000	73.3	75.6	78.8	83.5	86.9	89.9	93.0	95.0	94.2	89.4	82.5							125.2
676. FT/SEC	20000	73.7	76.2	79.3	83.2	87.3	91.2	93.7	96.2	96.3	92.1	83.7							127.0
	25000	71.8	74.0	76.1	80.3	85.1	88.0	92.4	95.0	96.1	92.8	83.3							126.7
	31500	70.3	72.8	74.7	79.5	82.6	86.8	90.4	93.7	94.1	91.3	80.2							125.9
	40000	70.3	72.2	72.9	77.0	80.4	84.8	89.0	90.5	91.4	89.4	76.9							124.9
	50000	67.2	68.2	67.7	71.1	74.2	77.8	82.2	82.9	83.3	84.8	70.6							119.9
	63000	63.5	64.0	62.4	62.9	64.9	67.4	71.5	72.7	73.2	75.4	63.3							112.7
	80000	67.8	68.1	65.9	64.7	64.7	65.1	65.8	66.0	66.5	66.3	64.4							112.8
OVERALL MEASURED																			
OVERALL CALCULATED		91.0	91.6	93.5	95.8	98.6	101.7	104.3	106.0	106.5	102.3	99.1							137.0
	PNDB	103.7	104.1	105.9	107.7	110.1	112.9	114.9	115.7	116.7	112.5	109.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 4 DAY 29 HR: 20.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	93. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
SIDELINE 200. FT, 80	40.8	42.8	45.2	46.1	47.2	48.5	51.1	51.7	52.4	54.4	55.3						
(60.96 M) 100	44.2	48.5	50.4	50.6	51.7	52.0	51.8	51.2	53.9	55.8	57.2						
VEHICLE R-55 125	51.7	55.0	54.6	54.5	55.4	56.0	56.5	56.9	56.1	56.2	56.8						
CONFIG 75-18 160	50.0	51.3	52.5	53.4	53.3	53.6	55.9	56.0	56.9	56.8	56.5						
LOC SCHENECTADY 200	49.0	50.1	51.3	52.7	54.8	56.6	57.1	57.5	57.9	56.5	57.1						
DATE 01-16-75 250	53.7	54.5	56.7	57.6	58.2	59.5	60.1	60.2	59.8	59.6	57.2						
RUN 51-4 315	55.8	55.4	56.6	57.3	57.9	58.2	58.2	57.6	57.2	56.4	54.9						
TAPE 25 400	52.4	53.9	54.7	55.6	56.7	57.0	57.8	57.1	56.9	56.4	53.9						
BAR 29.6 HG 500	51.2	52.0	53.7	55.2	56.3	57.1	58.3	58.0	57.5	56.7	53.3						
(00698. N/M2) 630	52.7	53.5	55.3	57.0	58.1	58.7	60.1	59.5	58.5	56.2	52.2						
TAMB 38. DEG F 800	51.8	53.2	55.5	56.1	57.8	58.6	59.0	59.4	58.4	56.0	51.1						
(DEG K) 1000	53.4	53.5	55.9	57.0	57.8	59.9	60.8	60.5	60.2	56.0	50.3						
TWB DEG F 1250	52.5	52.7	56.0	57.4	59.8	61.1	62.0	61.4	60.8	56.1	49.5						
275. DEG K) 1600	53.9	55.1	57.1	59.1	61.5	63.0	64.4	64.1	62.7	56.4	48.6						
HACT 4.94 GM/M3 2000	58.6	59.8	62.3	64.3	65.9	66.4	70.6	71.2	70.3	61.5	53.5						
(.00494 KG/M3) 2500	51.6	53.5	57.6	59.3	61.4	62.4	63.1	63.4	63.0	55.2	47.2						
NFA 7746. RPM 3150	49.5	51.5	55.5	57.6	60.4	62.7	63.0	63.7	64.0	52.3	46.0						
(811. RAD/SEC) 4000	47.3	52.6	55.1	59.2	63.0	66.2	66.3	65.2	65.2	57.8	47.4						
NFK 7908. RPM 5000	48.8	49.8	52.9	56.5	60.8	65.5	67.1	66.4	65.6	56.9	46.5						
(828. RAD/SEC) 6300	48.5	51.5	54.9	58.2	61.8	66.0	68.8	66.0	66.9	56.7	45.1						
NFD 8823. RPM 8000	48.5	49.5	53.1	57.6	60.9	64.9	66.6	66.9	64.6	54.5	42.8						
(924. RAD/SEC) 10000	44.7	49.0	52.9	57.5	61.6	64.2	66.1	66.8	63.6	53.2	39.9						
NO. OF BLADES 15 12500	41.8	44.7	49.1	54.6	58.1	60.8	62.6	63.0	59.9	48.8	32.0						
FAN TIP SPEED 16000	34.7	39.8	44.5	50.1	53.8	56.4	58.3	58.1	53.5	42.1	22.1						
676. FT/SEC 20000	29.1	34.7	39.9	44.9	49.4	52.8	53.9	53.6	49.0	36.4	10.9						
25000	18.5	24.8	29.5	35.2	40.5	42.8	45.3	44.3	39.2	24.9							
31500	4.2	12.2	17.5	24.4	28.0	31.5	32.6	31.1	23.8	9.7							
40000			0.1	9.9	11.1	14.4	15.3	10.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.3	66.8	69.1	71.2	73.5	76.0	77.5	77.4	76.4	70.3	66.7						
PNDB	77.8	79.4	82.0	84.2	86.4	89.0	90.3	90.5	89.7	82.8	75.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC, DATE - MONTH 4 DAY 29 HR, 20:1

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0,92)	62. (1,08)	71. (1,24)	81. (1,41)	91. (1,58)	101. (1,76)	111. (1,94)	122. (2,13)	133. (2,32)	145. (2,52)	156. (2,73)	0. (0,)	0. (0,)	0. (0,)	0. (0,)	0. (0,)	0. (0,)	PWL
50																		
63																		
80	64,1	65,7	66,5	67,7	68,5	70,0	72,7	74,7	77,0	80,6	85,4							110,8
100	67,7	71,2	72,5	72,8	73,0	74,0	74,0	75,8	77,8	82,1	87,0							111,7
125	75,2	77,3	76,6	75,8	76,8	77,3	76,6	79,6	80,6	84,7	86,8							113,7
160	73,9	74,5	74,8	75,5	75,3	75,8	78,3	79,3	81,3	83,6	86,7							113,5
200	73,5	73,3	74,1	74,6	76,4	78,6	79,6	81,1	82,6	85,2	87,9							114,6
250	77,5	77,5	78,6	79,8	80,6	81,3	82,3	83,1	84,9	86,2	87,8							116,8
315	77,7	78,3	78,6	79,1	78,9	80,1	80,1	81,1	82,1	83,7	86,3							115,1
400	76,7	76,7	77,3	77,8	78,5	78,7	80,2	81,3	81,5	83,1	85,7							114,4
500	74,8	75,0	75,9	76,9	77,9	79,4	81,1	81,7	82,7	83,8	84,6							114,4
630	75,7	77,3	78,1	79,1	80,1	81,3	82,8	83,4	83,6	83,9	83,8							115,6
800	76,5	77,3	77,9	78,9	80,1	80,9	83,1	83,4	83,7	83,5	83,0							115,5
1000	79,2	77,8	77,6	79,6	80,6	82,8	84,3	84,6	85,4	83,9	82,2							116,4
1250	77,3	77,2	78,9	80,4	82,4	83,9	85,3	86,2	86,7	84,5	82,3							117,6
1600	79,2	80,0	80,7	82,3	84,2	85,7	86,4	87,8	88,3	85,4	81,6							119,7
2000	83,8	84,1	85,3	87,1	88,8	91,3	94,5	96,4	98,2	91,1	86,7							126,1
2500	77,5	78,0	79,8	82,6	84,8	86,5	87,4	88,4	89,7	84,5	81,4							119,7
3150	75,8	77,1	78,6	80,7	83,8	86,2	88,0	89,4	91,0	85,1	81,2							119,9
4000	75,6	78,1	79,8	83,4	87,1	90,5	91,4	91,2	93,0	86,4	83,7							122,9
5000	75,1	76,1	75,3	81,2	85,1	89,2	92,4	92,2	93,0	87,9	83,2							122,9
6300	76,3	77,9	80,6	83,1	87,1	90,5	94,9	94,9	95,8	88,7	84,3							125,3
8000	75,7	77,6	80,2	83,6	87,2	91,0	93,4	92,0	94,6	89,7	83,8							125,3
10000	76,3	75,4	81,3	85,7	88,9	92,1	95,1	96,7	96,7	90,6	84,2							126,7
12500	79,2	77,1	80,4	83,9	87,9	93,9	93,4	92,6	95,6	89,9	83,2							125,7
16000	73,8	76,2	79,1	83,5	86,9	89,4	93,0	92,2	94,4	90,7	82,3							125,4
20000	74,2	76,9	80,0	83,4	87,8	90,7	94,0	96,4	96,5	92,6	83,7							127,2
25000	72,5	74,3	76,6	80,5	84,6	88,6	92,9	95,5	96,3	94,5	83,3							127,3
31500	70,3	73,5	75,4	79,8	82,6	86,8	90,9	94,2	94,1	92,1	80,2							125,3
40000	70,3	72,2	73,1	77,3	80,4	84,3	89,0	91,0	91,1	90,9	76,9							125,2
50000	68,0	68,7	68,5	70,6	73,7	77,6	82,2	83,2	83,6	80,5	70,9							120,4
63000	66,5	64,3	63,7	63,6	65,1	67,4	71,8	72,9	72,9	73,7	63,8							112,9
80000	67,8	63,1	65,2	64,7	64,7	65,1	65,8	66,3	66,7	69,1	64,4							113,3
OVERALL MEASURED																		
OVERALL CALCULATED	90,9	91,8	93,3	95,9	98,8	101,7	104,6	106,2	106,5	102,9	99,0							137,2
PNDB	103,5	104,3	105,8	107,6	110,2	113,0	115,3	116,0	116,6	112,5	109,5							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (90; DEG F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	133, (2.32)	145, (2.52)	156, (2.73)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	0, (0,)
50																	
63																	
SIDELINE 200; FT; 80	40,5	43,0	44,4	46,1	47,0	48,3	50,6	51,7	52,7	54,1	55,5						
(60,96 M) 100	44,0	48,3	50,3	51,1	51,4	52,3	51,8	50,7	53,4	55,8	56,9						
VEHICLE R-55 125	51,4	54,5	54,1	54,0	55,2	55,3	56,3	56,4	56,1	56,0	56,5						
CONFIG 75-18 160	50,0	51,6	52,5	53,7	53,5	53,9	55,9	56,0	56,7	56,8	56,3						
LOC SCHENECTADY 200	49,5	50,3	51,8	52,7	54,6	56,6	57,1	57,8	57,9	56,2	56,9						
DATE 01-16-75 250	53,4	54,5	53,2	57,8	56,7	59,3	59,8	60,7	60,0	59,1	56,9						
RUN 51-3 315	53,6	55,1	56,1	57,0	57,9	58,3	57,5	57,6	57,2	56,4	55,2						
TAPE 25 400	52,4	53,4	54,7	55,6	56,5	56,5	57,5	57,6	56,4	53,7	54,4						
BAR 29,8 HG 500	50,4	52,2	53,2	54,7	55,8	57,1	58,3	58,0	57,5	56,2	53,0						
(.00698; N/M2) 630	52,2	53,5	55,4	56,7	57,8	58,9	59,9	59,5	58,2	56,2	51,9						
TAMB 38; DEG F 800	51,8	53,7	55,0	56,4	57,8	58,3	60,0	59,4	58,1	55,5	50,9						
(276; DEG K) 1000	51,4	54,6	54,5	57,3	58,1	60,1	61,1	60,5	59,7	55,7	49,8						
TWET 35; DEG F 1250	52,3	53,2	55,7	57,7	59,8	61,1	62,0	61,9	60,8	56,1	49,5						
(275; DEG K) 1600	53,9	55,9	57,4	59,4	61,5	62,7	64,9	64,3	62,2	58,7	48,4						
HACT 4,94 GM/M3 2000	56,3	59,0	61,6	64,0	65,9	68,2	70,8	71,7	69,8	64,0	53,0						
(.00494 KG/M3) 2500	51,8	53,5	56,1	59,3	61,7	63,2	63,6	64,4	63,0	55,2	47,2						
NFA 7746; RPM 3150	49,8	52,3	54,5	57,1	60,4	62,7	63,8	63,2	64,0	59,3	46,3						
(811; RAD/SEC) 4000	50,3	52,2	55,1	59,5	63,3	66,5	66,8	65,4	65,4	57,8	47,7						
NFK 7914; RPM 5000	49,2	50,6	53,6	57,2	61,0	65,0	67,6	66,1	65,1	59,9	46,5						
(828; RAD/SEC) 6300	48,5	51,5	55,2	58,2	62,3	65,5	69,3	66,0	66,9	58,5	45,9						
NFD 8823; RPM 8000	48,5	50,3	53,6	57,6	61,4	64,9	66,6	66,9	64,3	55,5	42,6						
(.924; RAD/SEC) 10000	45,2	48,3	53,1	58,2	61,8	64,5	66,6	66,8	64,1	53,7	39,0						
NO. OF BLADES 15 12500	41,5	45,2	49,6	54,1	58,4	61,1	62,6	63,0	59,9	49,3	32,3						
FAN TIP SPEED 16000	35,2	40,1	44,7	50,1	53,8	55,7	58,3	58,3	53,7	43,4	21,9						
676; FT/SEC 20000	28,6	35,5	40,6	45,2	49,9	52,3	54,2	53,9	49,2	36,9	10,9						
25000	19,2	25,0	30,0	35,4	40,0	43,5	45,8	44,8	39,5	26,7							
31500	4,7	12,9	18,6	24,6	28,8	31,5	33,1	31,6	23,3	9,4							
40000			0,3	7,1	11,1	13,9	15,3	10,8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65,1	66,9	68,8	71,2	73,6	75,9	77,8	77,6	76,2	70,3	66,5						
PNDB	77,7	79,6	81,7	84,1	86,5	89,1	90,6	90,7	89,4	82,7	75,2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	67.6	70.2	73.0	75.5	75.7	74.2	71.7	68.7	69.2	72.3	75.2							107.8
100	72.4	75.2	78.3	80.0	80.8	79.5	76.3	69.0	72.3	75.1	77.0							111.5
125	67.7	68.6	71.3	68.1	71.6	67.8	67.6	71.1	71.8	71.9	75.5							104.7
160	62.9	66.0	66.3	66.5	66.8	66.8	68.3	69.3	71.0	72.9	74.7							103.2
200	67.0	71.1	67.1	67.1	68.4	69.6	70.3	71.6	72.4	73.7	76.0							105.0
250	67.2	70.3	69.3	69.8	70.1	70.6	71.6	72.1	72.8	74.0	75.3							105.5
315	69.0	71.3	70.1	70.8	71.1	71.1	71.1	71.4	72.4	73.2	73.8							105.5
400	66.7	68.2	68.0	69.3	69.8	70.5	71.0	71.3	72.3	73.1	73.9							104.8
500	67.1	68.1	67.9	69.2	69.9	70.4	71.6	72.7	73.2	74.0	74.3							105.3
630	69.7	70.3	71.3	71.6	72.8	73.6	73.3	73.4	73.6	73.4	74.0							107.7
800	68.5	69.1	69.1	70.1	71.4	72.9	74.6	75.9	76.7	76.7	73.8							107.6
1000	68.2	69.8	69.6	71.6	73.3	75.3	77.8	78.9	79.6	79.2	74.7							110.1
1250	73.3	74.3	75.1	78.7	79.4	81.9	83.8	84.7	85.7	86.0	78.8							115.2
1600	74.9	73.5	74.2	75.5	78.0	80.0	81.4	82.8	82.8	84.4	76.6							113.8
2000	70.3	70.3	71.1	73.9	75.6	77.5	80.0	80.4	81.2	81.1	76.5							112.0
2500	68.7	69.3	71.5	73.1	76.3	77.7	79.7	81.1	83.4	82.5	77.4							112.8
3150	68.3	67.8	69.1	71.2	74.1	77.0	78.5	79.7	82.2	81.1	73.9							111.5
4000	68.3	67.6	68.8	72.2	76.3	79.7	81.2	81.4	83.2	83.9	76.2							113.5
5000	66.3	66.9	68.8	71.4	75.6	79.2	83.2	83.7	84.3	83.1	75.9							114.3
6300	66.5	67.7	69.6	71.9	75.8	79.5	82.9	84.4	85.6	83.5	76.8							114.9
8000	65.9	67.6	69.5	71.8	76.0	80.2	83.2	84.5	85.5	84.2	76.1							115.3
10000	66.3	69.1	69.8	73.5	77.4	80.6	84.1	85.5	86.7	84.6	76.7							116.3
12500	66.7	66.3	67.8	70.4	75.7	78.4	81.9	84.6	86.1	83.4	74.5							115.6
16000	64.5	66.3	67.3	70.5	75.7	77.9	81.5	84.0	84.7	83.2	73.8							115.2
20000	64.2	65.9	66.3	67.9	73.5	77.4	80.0	83.2	85.8	84.6	73.2							115.4
25000	62.3	65.8	65.1	66.0	70.6	74.3	78.4	81.0	82.6	82.5	71.3							113.6
31500	63.3	66.5	64.9	66.5	70.1	73.6	76.6	79.9	81.6	79.3	69.7							113.0
40000	67.6	67.9	66.4	66.8	68.7	71.6	75.3	77.7	79.4	77.4	68.1							112.6
50000	66.5	66.7	65.0	64.6	65.2	67.1	69.7	70.4	72.1	72.0	65.1							108.8
63000	63.0	63.8	61.9	60.9	61.4	61.8	63.0	62.9	63.2	63.7	61.6							105.5
80000	67.8	68.1	65.9	64.7	64.7	65.1	62.8	62.0	63.7	64.3	64.4							112.5
OVERALL MEASURED																		
OVERALL CALCULATED	83.3	84.4	85.4	87.2	89.4	91.6	93.9	95.3	96.6	95.9	89.8							127.2
PNDB	93.6	94.6	95.9	97.8	100.8	103.3	105.5	106.2	107.3	107.1	101.8							

VEHICLE R-55
CONFIG 75-18
LOC SCHENECTADY
DATE 01-16-75
RUN 51-0
TAPE 25
BAR 29.8 HG (00698. N/M2)
TAMP 38. DEG F (276. DEG K)
TWET 35. DEG F (275. DEG K)
RACT 4.54 G/M3 (.00454 KG/M3)
NFA 5429. RPM (568. RAD/SEC)
NFK 5542. RPM (580. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	55. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT,	80	44.0	47.5	50.9	53.8	54.2	52.5	49.6	43.7	44.9	45.9	45.3						
(60.96 M)	100	46.7	52.5	56.2	58.3	59.2	57.8	54.0	46.0	47.9	48.6	46.9						
VEHICLE R-55	125	43.9	45.2	49.1	46.3	49.9	46.0	45.3	47.9	47.3	45.2	45.3						
CONFIG 75-18	160	42.0	43.1	44.0	44.7	45.0	44.9	45.9	46.0	46.4	46.0	44.3						
LOC SCHENECTADY	200	43.0	48.1	44.8	45.2	46.6	47.6	47.9	46.3	47.6	46.7	45.4						
DATE 01-16-75	250	43.2	47.2	46.9	47.8	48.2	48.5	49.1	48.7	47.8	46.8	44.4						
RUN 51-0	315	44.8	48.1	47.6	48.5	49.1	49.0	48.5	47.8	47.4	45.9	42.7						
TAPE 25	400	42.4	44.9	45.4	47.1	47.7	48.3	48.3	47.6	47.2	45.7	42.6						
BAR 29.8 HG	500	42.7	44.7	45.2	46.9	47.8	48.1	48.8	49.0	48.0	46.4	42.8						
(00698; N/M2)	630	45.2	46.8	48.5	49.2	50.6	51.2	52.4	51.5	50.2	47.7	42.2						
TAMB 38. DEG F	800	43.9	45.5	46.2	47.6	49.0	50.3	51.5	51.9	51.1	48.8	41.6						
(276; DEG K)	1000	43.4	46.0	46.5	49.0	50.8	52.6	54.6	54.7	53.9	51.0	42.3						
TWET 35; DEG F	1250	50.3	50.4	52.0	55.9	56.8	59.1	60.5	60.4	59.8	57.6	46.0						
(275; DEG K)	1600	47.7	49.4	50.9	52.6	55.2	57.0	57.9	58.3	56.7	54.7	43.4						
RHOT 4.94 G-/M3	2000	44.8	46.0	47.5	50.8	52.6	54.4	56.3	55.7	54.8	52.0	42.7						
(.00459 KG/M3)	2500	43.1	44.8	47.8	49.8	53.2	54.4	55.8	56.2	56.8	53.2	43.2						
NFA 5429. RPM	3150	40.3	42.8	45.0	47.6	50.7	53.4	54.3	54.4	55.2	51.3	39.0						
(568; RAD/SEC)	4000	39.8	42.3	44.4	48.2	52.5	55.7	56.6	55.7	55.7	53.3	40.2						
NFK 5542. RPM	5000	39.5	41.3	44.1	47.2	51.5	55.0	58.3	57.6	56.3	52.1	39.3						
(580; RAD/SEC)	6300	38.7	41.3	44.2	46.9	51.1	54.5	57.3	57.5	56.7	51.2	38.1						
NFD 8823. RPM	8000	38.8	40.0	42.9	45.8	50.1	54.2	56.4	56.4	55.1	50.0	34.8						
(924; RAD/SEC)	10000	38.2	38.8	41.6	46.0	50.1	53.2	55.6	55.5	54.1	47.9	31.5						
NO. OF BLADES 15	12500	38.8	34.4	37.3	40.6	46.1	48.6	51.1	52.0	50.4	44.5	23.5						
FAN TIP SPEED	16000	26.0	30.3	33.0	37.1	42.6	44.4	46.8	47.1	44.0	37.9	13.4						
474. FT/SEC	20000	19.6	24.5	26.9	29.7	35.6	39.1	40.2	40.6	38.5	28.0	0.4						
	25000	12.0	16.5	16.5	20.9	26.0	29.0	31.3	30.3	29.7	14.7							
	31500		5.9	7.8	11.4	15.5	18.2	18.8	17.4	10.8								
	40000						1.2	1.6										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		57.7	60.0	61.9	64.1	65.9	67.2	68.4	68.1	67.4	64.3	56.5						
PNDB		67.6	69.7	71.7	74.1	77.0	79.4	80.9	80.4	79.8	78.8	66.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC, DATE - MONTH 4 DAY 29 HR; 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL; HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53, (0,92)	62, (1,08)	71, (1,24)	81, (1,41)	91, (1,58)	101, (1,76)	111, (1,94)	122, (2,13)	133, (2,32)	145, (2,52)	154, (2,73)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	0, (0,)	PNL
	50																			
	63																			
RADIAL 17, FT,	80	67,6	70,2	72,7	74,2	74,7	74,0	71,2	66,0	68,0	71,3	73,9								104,3
(5, M)	100	72,7	75,5	75,0	79,3	79,8	79,0	76,3	69,0	71,0	74,4	75,7								111,0
VEHICLE R-55	125	67,0	68,5	70,8	68,1	70,3	67,8	67,6	70,8	71,3	71,4	74,8								104,2
CONFIG 75-1C	160	65,4	66,5	65,0	65,5	65,3	65,8	67,8	68,8	70,0	72,1	74,5								102,5
LOC SCHENECTADY	200	66,2	67,1	64,1	65,6	66,6	66,4	69,6	70,9	71,6	73,9	76,0								104,1
DATE 11-16-75	250	67,2	66,3	68,3	68,3	69,1	69,6	70,8	71,3	72,1	72,7	74,3								104,5
RUN 52-1	315	69,0	70,1	67,3	69,6	69,9	70,9	70,8	70,6	71,6	74,4	73,5								104,8
TAPE 25	400	66,9	67,2	67,5	67,6	68,8	69,5	70,2	70,5	71,8	74,1	72,9								103,9
BAR 29,6 HG	500	65,8	66,9	67,4	67,4	68,7	69,9	71,4	72,2	73,2	73,8	73,3								104,7
(100635, N/M2)	630	67,0	69,3	70,3	71,1	72,3	74,1	75,3	75,6	75,4	75,9	73,3								107,5
TAMB 39, DEG F	800	69,3	69,6	69,6	70,5	71,9	72,9	73,6	74,9	75,4	75,5	72,8								107,0
(276, DEG K)	1000	67,5	68,3	68,6	69,8	71,6	74,3	76,5	77,9	78,4	78,2	73,7								108,9
TWET 39, DEG F	1250	72,0	71,1	72,6	75,2	77,6	80,4	82,6	83,4	83,9	84,8	77,5								114,7
(279, DEG K)	1600	69,4	72,0	71,2	73,3	75,7	78,5	80,9	80,1	81,1	81,2	75,1								112,1
MACT 4,94 GM/M3	2000	69,5	66,1	67,3	69,2	71,3	73,0	74,3	75,7	75,9	76,3	73,0								107,1
(,00434 KG/M3)	2500	69,7	67,0	68,0	70,1	74,1	76,2	76,9	79,6	82,7	81,0	75,2								111,3
NFA 5437, RPM	3150	66,3	67,9	69,1	71,9	75,3	78,5	79,0	80,2	83,7	82,1	75,4								112,5
(569, RAD/SEC)	4000	69,3	70,9	70,6	73,7	77,3	81,2	82,9	84,7	85,7	84,4	77,7								115,4
NFK 5551, RPM	5000	67,8	68,5	70,3	73,4	77,3	81,2	84,7	85,2	85,8	83,4	77,2								115,7
(581, RAD/SEC)	6300	67,5	68,9	70,9	73,4	78,1	81,2	84,9	84,9	86,1	82,5	76,1								115,5
NFD 8823, RPM	8000	69,9	68,4	70,2	73,6	77,0	80,7	82,9	85,0	86,0	82,7	75,1								115,4
(924, RAD/SEC)	10000	65,8	68,1	70,3	74,0	78,2	81,5	83,6	85,2	86,9	81,8	74,7								116,1
NO, OF BLADES 15	12500	67,7	69,1	72,1	75,7	80,7	83,2	84,9	85,3	87,1	82,4	75,0								117,0
FAN TIP SPEED	16000	64,3	65,8	66,8	70,3	74,2	77,4	80,2	83,2	84,7	81,9	72,5								114,2
475, FT/SEC	20000	64,5	66,2	65,9	66,9	72,5	76,7	80,0	82,7	85,8	83,6	72,0								115,5
	25000	66,0	67,3	63,1	66,0	70,1	74,0	77,6	80,0	82,6	84,0	70,8								113,7
	31500	65,6	67,0	62,2	65,3	69,1	72,3	76,1	79,9	81,6	82,1	68,7								113,4
	40000	67,8	68,7	61,4	63,8	66,4	70,3	74,5	77,2	78,6	80,7	65,4								112,7
	50000	67,2	67,4	58,3	58,6	60,9	64,1	66,2	69,4	70,8	76,8	60,4								109,1
	63000	63,5	64,3	53,9	53,4	53,9	55,4	58,5	59,7	60,9	67,2	54,1								103,7
	80000	67,8	68,1	55,9	54,7	54,7	55,1	55,8	55,0	54,7	61,6	54,4								100,3
OVERALL MEASURED																				
OVERALL CALCULATED		82,6	83,8	84,6	86,6	89,4	92,0	94,0	95,3	96,8	95,1	89,0								127,1.
	PNDB	93,2	94,9	95,5	97,8	100,9	103,9	105,8	106,8	108,0	106,7	101,4								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	134, (2.32)	145, (2.52)	154, (2.73)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	44.0	47.5	50.7	52.6	53.2	52.3	49.1	43.0	43.7	44.9	44.0						
(60.96 M)	100	49.0	52.7	55.9	57.6	58.2	57.3	54.0	48.0	48.6	47.8	45.7						
VEHICLE B-55	125	49.2	45.7	43.6	46.3	48.7	46.0	45.3	47.7	46.8	44.7	44.5						
CONFIG 75-1C	160	41.5	43.6	42.8	43.7	43.5	43.9	45.4	45.5	45.4	45.3	44.0						
LOC SCHENECTADY	200	42.3	44.1	41.8	43.7	44.8	46.4	47.1	47.5	46.9	47.0	45.4						
DATE 81-16-75	250	43.2	45.2	45.9	46.3	47.2	47.5	48.3	47.9	47.3	46.6	43.4						
RUN 52-1	315	44.6	46.9	46.9	47.5	47.9	48.7	48.2	47.1	46.7	45.2	42.4						
TAPE 25	400	42.6	43.9	44.9	45.6	46.7	47.3	47.5	46.9	46.7	44.7	41.6						
BAR 29.8 HG	500	41.4	43.5	44.7	45.2	46.5	47.6	46.8	46.5	46.0	46.2	41.8						
(0.969 N/M2)	630	44.5	45.8	47.5	48.7	50.1	51.7	52.4	51.7	50.0	47.2	41.4						
TAMB 38. DEG F	800	44.6	46.0	46.7	48.1	49.5	50.3	50.5	50.9	49.9	47.5	40.6						
(276. DEG K)	1000	42.6	44.5	45.5	47.2	49.1	51.6	53.3	53.7	52.7	50.0	41.3						
THET 35. DEG F	1250	47.0	47.2	49.2	52.4	55.0	57.6	59.3	59.1	58.1	56.4	44.7						
(275. DEG K)	1500	44.2	45.9	47.9	50.4	53.0	55.5	57.4	55.6	55.0	52.4	41.9						
MACT 4.94 GM/M3	2000	40.1	41.8	43.8	46.0	48.4	49.9	50.6	50.9	49.6	47.3	39.2						
(.00494 KG/M3)	2500	40.1	42.5	44.3	46.8	50.9	52.9	53.1	54.7	56.0	51.7	41.0						
NFA 5437. RPM	3150	40.3	42.8	45.0	48.4	51.9	54.9	54.8	54.9	56.7	52.3	40.5						
(569. RAD/SEC)	4000	41.8	45.6	46.1	49.7	53.5	57.2	58.3	58.9	58.2	53.8	41.7						
NFK 5591. RPM	5000	41.0	43.1	45.6	49.2	53.3	57.0	59.8	59.1	57.8	52.4	40.5						
(585. RAD/SEC)	6300	39.7	42.5	45.4	48.4	53.3	56.3	58.3	58.0	57.2	50.2	37.6						
NFD 8823. RPM	8000	36.8	40.8	43.6	47.6	51.1	54.7	56.1	56.9	55.6	48.5	33.8						
(924. RAD/SEC)	10000	34.7	38.8	42.1	46.5	50.9	54.2	55.1	55.3	54.4	46.9	29.5						
NO. OF BLADES 15	12500	33.6	37.2	41.6	45.9	51.1	53.3	54.1	52.8	51.4	41.5	24.0						
FAN TIP SPEED	16000	29.7	29.6	32.5	37.1	41.1	43.9	45.5	46.3	44.0	34.6	12.1						
475. FT/SEC	20000	19.9	24.7	26.4	30.7	34.6	38.4	40.2	40.1	38.5	27.9							
	25000	12.7	17.8	16.5	20.9	25.5	28.8	30.5	29.3	25.7	16.2							
	31500		6.4	5.0	10.6	14.5	17.5	18.3	17.4	10.8								
	40000						0.4	0.8										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		50.7	59.1	61.1	63.1	65.3	67.2	68.2	67.9	67.2	60.4	55.7						
	PNDB	69.7	69.6	71.0	73.9	77.1	79.9	81.1	81.1	80.5	70.3	66.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20:1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	61.9	61.2	62.2	63.5	64.5	64.7	66.7	68.5	70.5	79.1	78.4							103.6
100	74.2	75.0	72.4	72.8	71.5	70.0	69.0	68.8	72.3	79.1	79.3							107.3
125	70.0	69.3	72.1	70.6	72.8	70.8	71.3	73.8	74.3	79.7	79.0							107.3
160	68.7	68.7	68.9	69.3	69.5	69.3	72.0	73.0	75.8	79.6	79.0							106.8
200	68.7	68.8	69.1	70.1	71.4	72.9	73.6	75.6	76.6	79.2	80.5							108.9
250	71.2	71.5	72.1	72.6	73.6	73.1	74.8	75.1	76.1	77.2	79.3							108.7
315	73.0	73.1	72.8	73.4	73.9	74.1	74.3	74.4	75.9	78.7	78.3							108.7
400	71.4	70.7	70.8	71.8	72.3	73.0	73.7	74.3	75.0	78.6	77.7							107.8
500	68.8	69.0	70.2	71.4	72.7	73.4	74.6	75.7	76.4	78.8	77.3							108.1
630	72.2	71.8	73.3	74.8	75.8	76.8	78.5	78.4	78.6	78.4	76.8							110.7
800	72.0	72.1	72.9	74.1	74.9	75.9	77.1	77.7	78.2	78.8	76.0							110.0
1000	70.0	71.0	71.6	73.3	74.8	77.3	79.3	80.6	81.1	79.9	76.2							111.6
1250	70.3	70.6	72.4	74.7	76.9	79.1	80.8	81.7	82.7	82.0	76.8							113.1
1600	70.2	70.7	72.5	80.3	84.7	84.7	86.7	86.8	87.1	87.7	80.1							118.6
2000	70.0	69.6	71.3	73.5	75.8	77.0	79.0	79.4	80.7	79.8	75.7							111.3
2500	69.5	68.3	69.5	71.6	74.1	75.7	76.7	79.4	81.4	79.0	73.9							110.5
3150	74.3	72.8	74.0	77.4	81.1	84.2	86.0	85.9	89.5	85.6	79.7							118.1
4000	72.0	71.6	73.3	77.2	80.3	83.5	85.4	86.2	87.5	84.1	78.7							117.2
5000	70.3	73.1	75.6	79.9	81.8	86.0	88.2	88.9	89.8	89.4	80.2							119.6
6300	71.3	72.9	75.1	78.6	82.8	85.2	87.7	88.9	90.1	85.0	79.3							119.5
8000	70.2	72.4	74.7	78.8	82.5	84.7	87.4	89.3	89.0	84.7	78.8							119.2
10000	69.1	71.4	74.1	78.7	81.9	84.6	87.1	88.5	88.7	84.3	77.7							119.9
12500	74.4	76.6	80.6	85.9	90.7	93.7	90.7	91.1	90.1	87.1	80.5							123.2
14000	66.0	70.1	73.1	78.5	81.2	84.4	86.7	88.7	88.7	85.9	78.8							119.5
20000	67.0	69.2	71.8	75.7	78.8	82.2	85.2	87.7	90.3	87.6	77.0							119.8
25000	66.3	68.6	68.9	71.8	76.4	79.8	83.1	85.7	87.3	85.8	75.3							118.0
31500	66.3	68.0	68.4	71.5	74.6	78.1	81.4	84.4	85.6	82.1	72.9							117.1
40000	67.8	68.7	67.8	70.0	72.7	76.1	80.0	82.0	83.4	79.7	70.4							116.4
50000	66.5	66.9	65.9	65.6	67.7	70.1	73.7	79.2	75.8	73.8	66.4							111.8
63000	63.5	64.3	61.9	61.4	61.9	62.6	64.8	69.9	69.7	64.9	62.1							106.8
80000	67.8	68.1	65.0	64.7	64.7	65.1	65.8	69.0	63.7	60.3	64.4							112.5
OVERALL MEASURED																		
OVERALL CALCULATED	80.1	86.4	87.9	91.3	94.8	97.4	98.2	99.4	100.2	97.4	92.8							131.1
PNDB	98.4	97.5	98.9	102.1	104.4	107.2	109.2	110.1	111.4	108.6	104.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

PROC. DATE - MONTH 4 DAY 29 HR. 20.1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	133, (2.32)	145, (2.52)	154, (2.75)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)
50																	
63																	
SIDELINE 200. FT, 80	38.3	38.5	40.2	41.8	43.0	43.0	44.6	45.9	46.2	47.6	48.9						
(60.96 M) 100	50.5	52.2	50.2	51.1	49.9	48.3	48.8	49.7	47.9	49.6	49.4						
VEHICLE R-55 125	46.2	47.8	49.9	48.6	51.2	49.8	49.0	50.7	49.8	49.8	48.8						
CONFIG 75-1C 160	44.8	45.4	46.4	47.4	47.8	47.4	49.6	49.8	50.4	49.8	48.9						
LOC SCHENECTADY 200	44.8	45.8	46.8	48.2	49.6	50.9	51.1	52.3	51.9	51.2	49.9						
DATE 01-16-75 250	47.2	48.2	49.7	50.8	51.7	51.0	52.3	51.7	51.3	50.1	48.4						
RUN 52-2 315	48.8	49.9	50.4	51.3	51.9	52.0	51.7	50.6	50.9	49.4	47.2						
TAPE 25 400	47.1	47.4	48.2	49.4	50.2	50.8	51.0	50.6	49.9	49.2	46.4						
BAR 29.8 IN 500	44.4	46.2	47.5	49.2	50.5	51.1	51.8	52.0	51.2	49.2	45.8						
(00898; N/M2) 630	47.7	48.3	50.5	52.5	53.6	54.4	55.6	54.5	53.2	50.7	44.9						
TAMB 38; DEG F 800	47.3	48.5	50.0	51.6	52.5	53.3	54.0	53.7	52.6	50.0	43.9						
(276; DEG K) 1000	45.1	47.3	48.5	50.7	52.3	54.0	56.1	56.5	55.4	51.7	43.8						
THET 33; DEG F 1250	45.3	46.7	49.2	51.9	54.3	56.3	57.5	57.4	56.8	53.6	44.0						
(279; DEG K) 1600	50.9	52.6	54.1	57.4	62.0	61.7	63.2	62.3	61.0	56.9	46.9						
MACT 4.54 GM/M3 2000	44.8	45.3	47.0	50.5	52.9	53.9	55.3	54.7	54.3	50.8	42.0						
(.00454 KG/M3) 2500	43.8	43.8	45.8	48.3	50.9	52.4	52.8	54.4	54.8	49.7	39.7						
NFA 6286. RPM 3150	43.3	48.0	50.5	53.9	57.7	60.7	61.8	60.7	62.5	55.8	44.8						
(659; RAD/SEC) 4000	46.0	46.3	48.9	53.2	56.5	59.5	60.8	60.4	59.9	53.5	42.7						
NFX 6336. RPM 5000	47.5	47.6	50.9	55.7	57.8	61.7	63.3	62.9	61.8	54.4	43.5						
(663; RAD/SEC) 6300	45.5	46.5	49.7	53.7	56.1	60.3	62.0	62.0	61.2	52.7	40.9						
NFD 8823. RPM 8000	41.0	44.4	48.1	52.8	56.6	58.7	60.6	61.1	58.6	50.5	37.6						
(924; RAD/SEC) 10000	34.0	42.0	45.9	51.2	54.6	57.0	58.6	58.5	56.1	47.4	32.5						
NO. OF BLADES 15 12500	40.5	44.9	50.1	56.1	61.1	63.8	59.9	56.5	54.4	46.3	29.5						
FAN TIP SPEED 16000	29.5	34.1	38.7	45.1	48.1	50.9	52.0	51.8	48.0	38.6	16.4						
942. FT/SEC 20000	22.4	27.7	32.4	37.4	40.9	43.6	45.4	45.1	43.0	31.9	4.2						
25000	15.8	18.8	22.3	26.7	31.7	34.5	36.8	35.1	30.5	17.9							
31500	8.2	7.4	11.3	10.4	20.8	22.7	23.8	21.9	14.8								
40000					3.4	5.7	6.3	1.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.1	61.2	62.9	65.9	69.1	70.9	71.7	71.3	70.4	63.6	59.4						
PNDB	71.9	72.4	74.7	78.2	81.0	83.2	84.6	84.3	84.1	76.5	69.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	93. (0.92)	82. (1.80)	71. (1.24)	61. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
	50																		
	63																		
RADIAL 17. FT.	80	64.1	63.4	64.5	66.0	66.7	67.7	70.5	71.7	74.0	77.8	82.2							107.1
(5. M)	100	67.4	73.2	73.8	72.5	71.8	71.4	71.0	71.5	75.8	79.1	83.5							109.2
VEHICLE R-55	125	74.2	80.5	80.6	78.1	77.3	74.8	74.1	77.3	78.6	79.9	83.3							112.6
CONFIG 75-1C	160	71.4	71.7	71.5	74.0	72.5	72.3	75.0	78.3	76.3	80.4	83.2							113.3
LOC SCHENECTADY	200	73.5	78.6	71.1	72.1	74.1	75.9	77.1	78.4	79.6	81.7	84.0							111.6
DATE 01-14-75	250	74.8	74.5	75.3	75.8	76.3	76.8	78.6	74.8	80.4	81.2	83.3							112.4
RUN 52-3	315	75.0	75.5	75.8	76.1	76.4	77.1	77.6	77.9	79.1	80.7	82.5							112.9
TAPE 25	400	74.7	73.9	73.8	75.0	75.5	76.0	76.7	77.5	78.8	80.1	81.7							111.1
BAR 29.0 HG	500	75.6	72.4	72.9	74.2	75.7	76.4	77.6	78.7	79.9	80.8	81.1							111.5
(98049 N/M2)	630	77.7	74.5	76.1	77.3	78.1	79.6	80.8	80.9	81.6	81.4	80.3							113.5
TAMB 38. DEG F	800	75.3	75.1	75.9	76.6	77.6	78.6	79.8	80.2	80.7	80.5	80.0							112.7
(276. DEG K)	1000	77.0	73.4	74.1	75.8	77.3	79.0	81.5	82.1	83.1	81.4	80.2							113.8
TWET 35. DEG F	1250	75.8	72.0	74.9	76.7	78.9	80.9	82.8	83.7	83.7	82.8	81.0							114.5
(275. DEG K)	1600	76.9	77.5	78.7	81.3	84.0	85.5	87.2	86.3	86.6	87.2	81.9							119.3
HACT 4.94 G/M3	2000	74.5	75.0	77.1	79.4	81.8	83.0	84.8	86.4	86.9	84.8	80.2							117.3
(.00859 KG/M3)	2500	70.5	71.5	73.0	75.9	77.3	79.0	79.7	82.1	84.7	80.8	77.4							113.4
NFA 6900. RPM	3150	74.5	73.8	76.3	79.9	83.3	87.0	87.7	87.7	91.0	86.1	80.9							119.5
(731. RAD/SEC)	4000	73.3	74.9	76.6	81.2	84.3	87.5	86.9	88.7	90.7	86.9	81.7							120.4
NFK 7120. RPM	5000	73.8	74.9	77.8	81.9	35.8	88.5	92.7	92.2	92.8	87.4	82.2							122.8
(746. RAD/SEC)	6300	73.9	75.7	78.1	82.4	84.8	88.5	91.2	91.9	92.6	87.8	81.3							122.3
NFD 8023. RPM	8000	73.2	75.9	78.7	82.8	85.5	88.7	91.4	92.5	92.8	87.2	81.5							122.4
(924. RAD/SEC)	10000	71.6	73.6	77.3	80.7	83.9	87.6	90.1	91.5	92.4	86.8	80.4							122.0
NO. OF BLADES 15	12500	73.7	75.8	80.3	85.2	89.2	90.4	96.4	94.3	92.6	87.6	81.0							123.5
FAN TIP SPEED	16000	70.5	72.6	76.8	82.0	84.4	86.4	89.2	92.2	91.4	87.4	79.5							122.3
889. FT/SEC	20000	69.7	72.2	76.0	79.4	82.5	86.2	89.5	91.4	93.8	89.4	79.7							123.0
	25000	68.8	71.8	73.4	77.3	80.9	84.8	87.6	90.5	91.6	89.8	78.8							122.4
	31500	68.1	73.5	71.9	76.0	79.1	82.6	86.4	89.4	89.8	87.1	76.7							121.9
	40000	66.6	70.2	70.4	74.6	76.7	80.5	85.0	88.5	87.1	84.9	73.4							120.7
	50000	66.7	67.7	66.5	67.9	70.4	73.6	77.9	79.4	79.8	77.6	68.1							115.6
	63000	63.5	63.4	62.2	62.1	62.6	64.4	68.0	68.7	68.4	66.2	61.8							109.7
	80000	67.8	68.1	65.9	66.7	64.7	65.1	65.8	65.0	63.7	63.3	64.4							112.5
OVERALL MEASURED																			
OVERALL CALCULATED		86.1	88.9	90.6	93.5	96.3	98.8	101.1	102.4	103.2	99.6	95.8							133.8
	PNDB	99.1	100.8	101.7	104.9	107.7	110.1	112.9	113.1	114.1	110.5	106.9							

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	40.5	40.8	42.4	44.3	45.2	46.0	48.3	48.7	49.7	51.4	52.3						
(60.96 M)	100	43.7	50.5	51.7	50.8	50.2	49.5	48.8	48.5	50.6	52.6	53.4						
VEHICLE B-55	125	50.4	57.7	56.4	56.3	55.7	53.8	51.8	51.2	54.1	54.2	53.8						
CONFIG 75-1C	160	47.5	48.4	49.3	51.2	50.8	50.4	52.6	53.8	54.7	53.5	52.8						
LOC SCHENECTADY	200	46.5	47.9	48.8	50.2	52.3	53.9	54.6	55.8	54.9	54.7	53.4						
DATE 01-10-75	250	47.9	51.5	52.8	53.8	54.5	54.8	56.1	55.4	55.5	54.1	52.4						
RUN 52-3	315	50.8	52.4	53.4	54.8	54.4	55.8	55.8	54.3	54.2	53.4	51.4						
TAPE 25	400	50.4	50.2	51.2	52.8	53.5	53.8	54.8	53.9	53.7	52.7	50.4						
BAR 29.3 HG	500	51.2	49.8	50.2	51.9	53.5	54.1	54.8	55.0	54.7	53.2	49.5						
(99698. N/M2)	630	53.2	51.8	53.3	55.8	55.8	57.2	57.9	57.8	56.2	53.7	48.4						
TAMB 38. DEG F	800	50.6	51.5	53.8	54.1	55.3	56.1	56.8	56.2	55.1	52.5	47.9						
(276. DEG K)	1000	52.1	50.0	51.0	53.2	54.8	56.4	58.3	58.8	57.4	53.2	47.8						
TWET 35. DEG F	1250	54.8	48.7	51.7	53.9	56.3	56.1	59.3	59.4	57.8	54.4	48.2						
(275. DEG K)	1600	51.7	53.4	55.4	58.4	61.2	62.5	63.7	63.8	62.5	58.4	48.8						
WACT 4.54 KG/M3	2000	47.1	51.3	53.5	56.3	59.9	59.9	61.1	61.7	60.6	55.8	46.5						
(.03454 KG/M3)	2500	44.8	47.0	49.3	52.6	54.2	55.7	55.8	57.2	56.8	50.7	43.2						
NFA 6900. RPM	3150	46.5	49.8	52.5	56.4	59.9	63.4	63.5	62.4	64.8	56.3	46.0						
(731. RAD/SEC)	4000	46.8	49.6	52.1	57.2	60.5	63.5	64.3	62.9	63.2	58.3	45.7						
NFK 7175. RPM	5000	47.8	49.3	53.1	57.7	61.8	64.2	67.8	66.1	64.8	58.4	45.5						
(748. RAD/SEC)	6300	49.7	49.3	52.7	56.4	60.1	63.5	65.5	65.8	63.7	54.7	42.9						
NFD 8823. RPM	8000	46.8	48.3	52.1	56.8	59.6	62.7	64.6	64.4	62.3	54.8	40.1						
(924. RAD/SEC)	10000	48.5	46.3	49.1	53.2	56.6	60.8	61.6	61.5	59.9	49.7	35.2						
NO. OF BLADES 15	12500	39.8	43.9	49.8	55.4	59.6	60.0	59.6	59.8	56.9	46.8	30.8						
FAN TIP SPEED	14000	32.8	36.8	42.5	48.6	51.3	52.9	54.5	55.3	50.7	40.1	19.1						
600. FT/SEC	20000	23.1	30.7	36.8	41.2	44.6	47.8	49.7	48.9	45.7	33.6	6.9						
	27000	15.5	21.8	26.8	31.9	36.2	38.8	40.5	39.8	34.7	21.9							
	31500	2.8	9.9	14.8	20.9	24.5	27.2	28.8	28.9	19.1	1.4							
	40000				3.6	7.4	9.9	11.3	8.3									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		62.5	64.3	66.1	68.5	71.8	73.1	74.6	74.8	73.2	67.7	63.1						
PNDB		72.8	74.9	77.4	81.0	83.9	86.1	88.2	87.3	86.6	80.2	71.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	131. (2.29)	145. (2.52)	154. (2.68)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FR.	80	64.6	65.2	66.7	67.7	68.5	70.8	73.2	74.7	77.6	81.1	85.2							118.8
(9. M)	100	67.4	71.2	72.3	72.5	73.8	73.8	73.5	74.0	77.5	81.9	87.8							111.6
VEHICLE 8-55	125	73.2	77.8	76.6	76.1	76.8	77.1	78.1	77.3	80.6	84.9	86.8							113.7
CONFIG 75-1C	150	73.7	74.5	74.5	75.3	75.3	75.8	76.3	77.5	81.3	83.6	86.7							113.5
LOC SCHENECTADY	200	72.7	72.4	73.6	74.4	74.6	78.6	79.3	80.0	82.4	84.9	87.5							114.9
DATE 81-10-75	250	77.8	77.6	77.1	79.3	80.1	81.3	82.8	83.8	84.7	86.2	87.8							116.9
RUN 52-8	315	77.7	78.6	78.6	79.4	79.9	80.1	81.1	81.1	82.1	83.4	86.4							115.2
TAPE 25	400	76.7	76.7	77.8	77.6	78.3	79.8	79.7	80.8	81.5	83.4	85.2							114.2
BAR 29.8 HG	500	74.6	75.1	75.4	77.4	77.7	79.4	80.9	81.4	82.4	83.8	84.8							114.3
(00699, M/M2)	630	76.5	77.4	76.1	79.3	80.6	82.1	83.3	83.6	83.6	83.7	84.8							115.9
TAMB 39. DEG F	800	77.8	77.3	77.9	78.9	79.9	80.9	82.3	83.2	83.2	83.8	82.8							115.2
(277, DEG K)	1000	75.2	76.5	76.8	78.3	79.6	81.4	83.5	84.4	85.1	83.4	82.5							115.3
INET 39. DEG F	1250	75.1	75.1	77.1	78.9	81.1	82.9	84.8	84.9	85.7	83.8	82.3							116.6
(277, DEG K)	1600	75.9	76.7	76.2	80.8	82.2	84.5	86.7	86.8	87.1	83.7	81.4							117.9
RHOT 4.24 G/M3	2000	78.8	80.0	82.3	83.9	85.6	88.8	91.4	92.9	93.2	88.6	85.2							123.8
(.00424 KG/M3)	2500	74.8	75.5	77.8	79.6	82.1	83.8	84.8	86.1	88.2	86.8	88.7							117.3
MFA 7752. RPM	3150	74.8	75.9	78.8	81.2	84.9	86.8	87.8	88.4	91.5	92.9	91.7							120.1
(812, RAD/SEC)	4000	77.1	78.9	81.8	85.7	88.4	91.2	93.2	93.9	94.5	90.1	85.9							124.6
MFK 7900. RPM	5000	76.1	76.6	80.8	83.2	86.9	90.7	93.5	93.9	94.5	88.7	83.4							124.4
(828, RAD/SEC)	6300	77.3	79.7	82.4	85.6	88.8	92.8	95.7	95.6	96.6	89.7	84.1							125.3
MFJ 8828. RPM	8000	78.2	79.2	82.3	86.1	88.7	91.8	94.7	95.3	95.8	89.2	83.6							125.3
(924, RAD/SEC)	10000	74.1	76.4	79.9	83.3	86.5	90.4	93.6	95.8	94.7	88.6	82.7							124.9
NO. OF BLADES 15	12500	75.8	77.5	80.9	84.7	86.5	91.2	93.2	95.2	95.6	89.4	82.8							125.6
FAN TIP SPEED	15000	73.1	75.9	80.6	83.8	86.5	89.8	92.5	95.3	94.2	89.8	82.3							125.1
877, FT/SEC	20000	73.3	76.5	80.6	83.7	86.8	89.7	93.3	95.7	96.1	91.4	82.8							126.6
	25000	72.3	75.3	78.4	81.3	84.9	88.3	92.6	94.7	96.1	92.6	83.8							126.7
	31500	70.8	73.5	76.7	80.8	82.9	86.6	90.9	93.4	93.6	90.8	80.2							125.7
	40000	70.5	72.6	74.8	77.9	80.6	84.3	88.7	90.4	91.1	89.9	77.1							124.8
	50000	67.3	68.8	68.3	70.7	73.8	77.2	82.3	84.8	83.5	83.6	70.7							119.8
	63000	63.8	64.1	62.7	63.1	64.9	67.2	71.6	72.2	72.7	74.2	63.4							112.3
	80000	67.5	67.4	65.8	64.4	64.4	64.8	65.5	65.5	67.8	67.6	64.1							112.9
OVERALL MEASURED																			
OVERALL CALCULATED		89.8	91.1	93.4	96.8	98.6	101.3	104.4	105.7	106.3	102.8	98.9							134.9
	PNDB	101.0	103.0	105.1	108.2	110.6	113.1	115.4	115.8	116.8	114.0	110.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	67. (1.16)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	41.0	42.5	44.7	46.1	47.0	48.3	51.1	51.7	52.7	54.6	55.3						
(60.96 M)	100	43.7	45.5	46.2	50.0	51.4	52.0	51.3	51.0	53.1	55.3	56.0						
VEHICLE A-55	125	51.4	54.2	54.4	54.3	55.2	55.3	55.0	56.2	56.1	56.2	56.5						
CONFIG 75-1C	160	49.0	51.0	52.3	53.4	53.5	53.9	55.9	56.3	56.7	56.8	56.3						
LOC SCHNECTADY	200	48.0	49.0	51.3	52.4	54.0	56.6	56.9	57.4	57.6	58.0	56.9						
DATE 01-16-75	250	52.9	54.7	56.7	57.3	58.2	59.3	60.3	60.4	60.0	59.1	56.9						
RUN 52-0	315	53.0	55.4	56.1	57.3	57.9	58.0	58.5	57.6	57.2	56.2	55.2						
TAPE 25	400	52.4	53.4	54.4	55.6	56.2	56.8	57.0	57.1	56.4	55.9	53.9						
BAR 29.0 HG	500	56.2	51.7	52.7	55.2	55.5	57.1	56.1	57.7	57.2	56.2	53.3						
(98699; N/M2)	630	52.0	53.5	55.3	57.0	58.3	59.7	60.4	59.7	58.2	55.9	51.9						
TAMB 39; DEG F	800	52.3	53.7	55.0	56.6	57.5	58.3	59.3	59.2	57.6	55.3	50.6						
(277; DEG K)	1000	50.4	52.0	53.0	55.7	57.1	58.7	60.3	60.2	58.4	55.2	50.0						
TWET 35; DEG F	1250	50.1	51.2	54.0	56.2	58.5	60.1	61.5	60.0	59.0	55.4	49.9						
(275; DEG K)	1600	50.7	52.0	54.9	57.1	59.5	61.5	61.2	60.3	61.0	56.0	48.1						
HACT 4.20 GM/M3	2000	54.6	56.3	58.0	60.0	62.6	64.0	63.6	63.2	60.8	59.5	51.5						
(.00423 KG/M3)	2500	46.3	51.0	53.3	56.3	58.0	59.7	60.1	61.2	61.6	58.4	48.5						
NFA 7752. RPM	3150	45.5	51.0	54.0	57.0	61.5	63.2	62.0	63.2	64.5	58.0	46.6						
(812; RAD/SEC)	4000	50.5	53.6	57.4	61.7	64.5	67.2	63.6	64.2	66.9	59.6	49.9						
NFR 7900. RPM	5000	47.2	51.1	56.1	59.0	62.0	66.5	66.6	67.9	66.6	57.6	46.8						
(828; RAD/SEC)	6300	46.5	52.3	56.9	60.7	64.1	67.0	70.0	66.8	67.7	57.5	45.6						
NFB 8823. RPM	8000	47.1	51.6	55.7	60.4	62.9	65.7	67.9	67.1	65.4	55.0	42.3						
(924; RAD/SEC)	10080	43.0	46.0	51.7	56.2	59.1	62.8	65.2	65.0	62.2	51.7	37.5						
NO. OF BLADES 15	12500	41.1	45.8	50.4	54.9	58.9	61.4	62.4	62.0	60.0	48.6	31.8						
FAN TIP SPEED	16000	34.6	39.7	46.3	50.4	53.4	55.5	57.8	58.4	53.6	41.7	21.9						
677. FT/SEC	20000	26.4	35.0	41.2	45.5	48.9	51.4	53.5	53.2	48.8	33.7	10.0						
	25000	19.0	25.8	31.8	36.2	40.3	43.8	45.5	44.1	39.3	24.7							
	31500	9.7	12.9	19.0	24.9	28.3	31.2	33.1	30.9	22.0	9.0							
	40000			1.2	7.0	11.3	13.9	15.0	10.2									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.0	66.1	68.4	71.0	73.4	75.7	77.5	77.1	76.0	70.8	66.5						
	PNOR	75.7	77.9	81.1	84.4	86.9	89.2	90.7	90.0	89.4	82.8	75.2						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	93. (0.72)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80	64.4	65.7	67.0	67.7	68.7	70.5	73.0	75.0	77.2	81.1	85.4								110.2
(5. M)	100	67.7	71.0	72.3	72.3	73.0	73.8	75.5	74.3	78.0	82.4	87.0								111.7
VEHICLE R-55	125	75.2	77.3	77.1	75.8	76.6	77.1	78.6	79.8	80.6	82.7	86.8								113.7
CONFIG 75-1C	160	73.7	74.7	74.8	75.3	75.5	75.5	76.3	79.3	81.5	83.6	86.5								113.4
LOC SCHENECTADY	200	73.0	72.8	73.6	74.9	77.1	78.6	79.1	80.9	82.4	84.7	87.8								114.5
DATE 01-16-75	250	77.0	77.5	78.5	79.6	80.1	81.3	82.6	83.6	85.1	86.2	87.8								116.7
RUN 52-5	315	78.0	78.6	78.6	79.6	79.4	80.1	80.8	81.1	82.1	83.7	86.0								115.1
TAPE 25	400	76.4	77.5	77.0	77.8	78.3	79.0	80.0	81.0	81.8	83.4	85.2								114.3
BAR 29.8 HG	500	74.8	76.9	76.2	76.7	78.2	78.9	80.9	81.2	82.4	84.0	86.6								114.4
(00698. N/M2)	630	76.5	76.8	78.3	79.6	80.6	81.8	83.3	83.4	83.6	83.9	83.8								115.8
TAMB 39. DEG F	800	77.3	79.1	77.0	79.6	79.9	81.1	82.3	83.2	83.4	83.0	82.8								115.4
(277. DEG K)	1000	75.5	77.5	76.8	78.6	79.8	81.5	83.8	84.6	85.1	83.9	82.7								116.1
TWET 35. DEG F	1250	75.6	75.3	77.4	78.9	81.4	83.1	85.1	85.4	85.9	84.0	81.8								116.8
(275. DEG K)	1600	76.2	76.7	78.0	80.3	82.5	84.7	85.9	87.3	87.1	84.2	81.1								118.3
RHOT 4.24 GM/M3	2000	79.5	80.5	81.8	84.1	85.6	88.5	91.0	92.9	92.9	88.6	85.5								122.9
(.00424 KG/M3)	2500	74.3	75.5	76.8	79.4	82.1	83.0	84.0	86.1	88.2	82.8	80.4								117.2
NFA 7745. RPM	3150	74.3	76.4	77.8	81.4	84.9	86.5	87.2	88.7	91.7	85.6	81.4								120.3
(811. RAD/SEC)	4000	77.3	79.4	80.8	85.4	88.9	91.5	92.7	94.2	94.5	90.1	85.2								124.6
NFK 7899. RPM	5000	76.1	77.4	79.8	83.0	87.1	90.7	94.2	94.2	94.0	88.7	83.7								124.5
(827. RAD/SEC)	6300	77.0	78.7	81.9	84.6	88.1	92.5	95.7	95.6	97.1	89.5	83.8								126.4
NFD 8823. RPM	8000	76.2	78.7	82.5	86.6	88.7	92.0	94.7	95.8	95.3	89.2	83.9								125.9
(924. RAD/SEC)	10000	74.1	76.7	80.1	83.3	86.0	90.6	93.6	95.0	94.4	88.4	82.5								124.9
NO. OF BLADES 15	12500	75.2	77.1	81.6	84.2	88.2	91.5	93.5	96.2	95.4	89.4	82.8								125.9
FAN TIP SPEED	16000	73.9	76.1	79.9	83.6	86.8	89.3	92.8	95.5	94.5	89.2	82.1								125.3
676. FT/SEC	20000	73.0	76.2	80.3	83.2	86.3	90.2	93.8	96.2	96.1	91.4	82.5								126.8
	25000	72.3	74.8	78.1	81.3	85.2	88.3	92.9	95.5	96.1	92.6	82.8								126.9
	31500	71.3	73.5	76.4	80.3	82.9	87.1	90.8	93.4	94.1	90.1	79.9								125.8
	40000	70.8	72.8	74.3	77.7	80.9	84.3	89.0	90.4	90.6	86.9	76.6								124.5
	50000	67.3	68.3	71.2	73.8	77.7	82.3	82.5	83.5	84.6	82.6	70.5								119.8
	63000	64.3	64.1	62.9	63.4	64.9	67.2	71.8	72.7	72.7	74.0	63.6								112.4
	80000	67.5	67.8	65.6	64.4	64.4	64.8	69.5	69.7	66.5	64.6	64.1								112.5
OVERALL MEASURED																				
OVERALL CALCULATED		80.9	81.4	83.2	85.9	88.6	101.7	104.5	108.1	106.2	102.0	98.8								137.0
	PNDB	101.7	103.4	104.8	108.1	110.8	113.3	115.4	116.2	117.0	113.0	109.9								

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OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	33. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	40.8	43.0	44.9	46.1	47.2	48.8	50.8	52.0	52.9	54.6	55.5						
100	44.0	48.2	50.2	50.6	51.4	52.0	51.3	51.2	53.6	55.8	56.9						
125	51.4	54.5	54.9	54.0	54.9	55.3	56.3	56.7	56.1	56.0	56.5						
160	49.8	51.8	52.5	53.4	53.8	53.6	55.9	56.0	56.9	56.8	56.0						
200	49.0	49.8	51.3	52.9	55.3	56.6	56.6	57.5	57.6	57.7	57.1						
250	52.9	54.5	56.4	57.6	58.2	59.4	60.1	60.2	60.3	59.1	56.9						
315	53.8	55.4	56.1	57.5	57.4	58.0	58.2	57.6	57.2	56.4	54.9						
400	54.1	54.2	54.4	55.6	56.2	56.8	57.3	57.4	55.7	55.9	53.9						
500	50.4	53.5	53.5	54.4	56.0	56.6	56.1	57.5	57.2	56.4	53.0						
630	52.0	53.3	55.5	57.2	58.3	59.4	60.4	59.5	58.2	56.2	51.9						
800	52.6	55.5	54.7	57.1	57.5	58.6	59.3	59.2	57.9	55.0	50.6						
1000	50.6	53.8	53.8	56.8	57.3	58.9	60.6	60.5	59.4	55.7	50.3						
1250	50.6	51.4	54.2	56.2	58.8	60.3	61.8	61.1	60.1	55.6	49.0						
1600	51.0	52.6	54.6	57.4	59.7	61.8	62.4	62.8	61.0	55.4	47.9						
2000	54.1	56.3	58.3	61.1	62.6	65.4	67.3	66.2	56.6	51.8	51.7						
2500	48.6	51.0	53.1	56.1	58.9	59.7	60.1	61.2	61.6	56.4	46.2						
3150	48.3	51.5	53.8	57.9	61.5	62.9	63.0	63.4	64.7	59.8	46.5						
4000	50.8	54.1	56.4	61.5	65.0	67.5	68.1	68.4	66.9	59.6	49.2						
5000	49.2	51.8	55.1	58.8	63.1	66.5	69.3	68.2	66.1	57.6	47.3						
6300	49.3	52.3	56.4	59.7	64.3	67.5	70.0	68.8	66.2	57.2	45.4						
8000	47.1	51.1	55.9	60.6	62.9	65.9	67.9	67.6	64.9	55.0	42.6						
10000	45.0	47.3	51.9	55.7	58.6	63.0	65.2	65.0	61.9	51.5	37.3						
12500	41.3	45.3	51.1	54.4	58.7	61.6	62.7	63.6	59.7	48.6	31.8						
16000	35.3	40.1	45.5	50.1	53.6	55.7	58.1	58.6	53.8	42.8	21.7						
20000	28.4	34.8	40.9	45.8	48.4	51.9	54.0	53.7	48.8	35.7	9.7						
25000	19.8	25.6	31.6	36.2	40.5	43.0	45.8	44.8	39.3	24.7							
31500	9.2	12.9	19.3	25.1	28.3	31.7	32.8	30.9	23.3	4.4							
40000			1.5	7.6	11.6	13.9	15.2	10.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.0	66.4	68.2	70.9	73.4	75.9	77.5	77.3	75.9	70.1	66.4						
PNDB	75.6	78.4	80.5	84.2	87.1	89.4	90.6	90.6	89.4	82.8	74.9						

SIDELINE 200. FT, (60.96 M)
VEHICLE R-55
CONFIG 75-1C
LOC SCHENECTADY
DATE 01-16-73
RUN 52-2
TAPE 25
BAR 29.8 HG (00698; N/M2)
TAMB 39; DEG F (277; DEG K)
TWET 35; DEG F (275; DEG K)
HACT 4.28 GM/M3 (.00429 KG/M3)
NFA 7742. RPM (811; RAD/SEC)
NFK 7899. RPM (827; RAD/SEC)
NFD 8823. RPM (924; RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 676. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	33. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	70.1	69.7	72.2	73.7	74.5	73.5	70.7	66.5	68.5	71.3	73.9							106.1
100	73.4	74.7	77.5	79.0	79.5	78.8	75.3	68.5	71.5	74.6	76.7							110.7
125	71.0	67.8	71.1	67.6	70.6	67.6	66.8	70.6	71.1	71.2	74.3							104.2
160	71.4	66.2	65.0	65.3	65.8	65.5	67.5	68.8	70.5	72.4	74.5							103.1
200	69.0	66.6	64.6	65.1	66.6	68.4	69.6	70.6	71.9	73.9	75.8							104.1
250	69.2	67.6	68.3	67.8	68.8	69.6	71.1	71.6	72.1	72.9	74.3							104.7
315	73.7	69.8	69.8	69.9	70.1	70.6	70.6	70.9	71.6	72.4	73.3							105.6
400	73.4	67.2	67.5	67.8	68.5	69.5	70.5	71.0	71.3	72.1	72.9							104.9
500	73.8	66.8	66.7	67.4	68.7	69.9	71.1	72.0	72.4	73.5	73.3							105.1
630	73.0	69.8	70.6	71.1	73.6	73.8	74.8	74.1	75.4	75.2	73.5							107.9
800	71.0	69.6	69.4	69.9	71.4	72.4	73.6	74.9	75.7	75.7	72.5							107.8
1000	72.2	68.5	68.3	69.6	72.1	74.0	76.5	77.9	78.4	78.2	73.8							109.8
1250	73.1	71.8	72.4	76.2	77.6	80.4	82.3	83.4	84.2	84.8	78.8							114.8
1600	76.2	70.8	70.5	73.8	75.2	78.0	79.7	80.8	81.1	80.9	73.9							111.8
2000	69.5	66.3	67.6	69.1	70.6	73.3	74.3	75.7	76.4	76.6	72.0							107.2
2500	66.0	67.8	68.3	70.1	73.3	75.7	77.2	79.4	83.4	80.5	75.2							111.4
3150	66.3	67.9	69.3	71.4	75.1	78.3	79.8	79.9	83.2	82.4	74.9							112.3
4000	67.8	70.9	70.3	73.9	77.6	81.5	83.0	84.4	85.8	84.1	77.4							115.4
5000	67.3	68.6	69.8	73.8	77.1	81.8	84.2	84.9	85.8	82.9	76.2							115.5
6300	67.3	68.9	70.7	73.4	77.3	80.8	83.4	84.9	85.9	82.7	76.3							115.4
8000	66.0	68.2	70.8	72.9	77.2	80.3	83.2	84.6	85.3	82.2	74.9							115.0
10000	65.6	68.2	70.1	73.3	78.2	81.6	83.6	85.0	85.9	81.4	75.0							115.7
12500	66.7	68.6	71.4	74.7	80.0	82.7	84.5	85.2	87.1	81.9	74.8							116.7
16000	64.4	65.4	66.8	70.3	74.3	77.5	80.5	83.3	84.7	79.7	72.8							114.0
20000	64.3	65.5	65.6	68.7	73.1	76.5	79.3	82.5	85.4	80.9	72.3							114.3
25000	63.1	67.0	62.4	65.6	70.2	74.0	77.6	80.0	82.1	80.3	70.5							112.6
31500	65.6	66.5	61.9	65.5	69.1	72.8	76.1	79.4	80.8	78.8	68.7							112.4
40000	67.5	68.1	60.8	63.7	67.1	70.5	74.0	76.9	79.1	77.9	65.8							112.0
50000	66.1	66.6	57.6	58.0	60.8	63.7	67.8	69.3	71.0	72.6	60.0							107.4
63000	62.8	63.6	53.4	52.9	53.4	54.7	58.1	59.2	61.0	62.5	53.4							102.2
80000	67.5	67.8	55.6	54.4	54.4	54.6	55.5	54.7	54.5	54.6	54.1							107.8
OVERALL MEASURED																		
OVERALL CALCULATED	83.1	83.5	84.4	86.4	89.2	91.8	93.7	95.1	96.6	94.2	88.6							126.8
PNDB	94.5	94.8	95.3	97.8	100.9	103.6	105.5	106.7	108.0	106.5	101.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (SP, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT, 80	48.5	47.0	50.2	52.1	53.0	51.8	48.6	43.5	44.2	44.9	44.8						
(60.96 M) 100	49.7	52.9	55.4	57.3	57.9	57.0	53.0	49.5	47.1	48.1	46.7						
VEHICLE R-55 125	47.2	45.8	48.9	45.8	48.9	45.8	44.5	47.4	46.5	44.5	44.8						
CONFIG 75-1C 160	47.5	43.3	42.8	43.4	44.0	43.6	45.1	45.5	45.9	45.5	44.0						
LOC SCHENECTADY 200	49.0	43.8	42.3	43.2	44.8	46.4	47.1	47.3	47.1	47.0	45.1						
DATE 01-16-75 250	49.2	44.7	45.9	45.8	47.0	47.5	48.6	48.2	47.3	45.8	43.4						
RUN 52-6 315	51.0	46.4	47.1	47.8	48.1	48.5	48.0	47.3	46.7	45.2	42.2						
TAPE 25 400	51.1	43.9	44.9	45.6	46.5	47.3	47.8	47.4	46.2	44.7	41.6						
BAR 29.0 HG 500	49.4	43.2	44.0	45.2	46.5	47.0	46.3	46.7	47.2	45.9	41.8						
(98698, N/M2) 630	48.5	45.5	47.8	48.7	51.3	51.4	51.9	52.2	50.8	47.4	41.7						
TAMB 39, DEG F 800	49.3	46.8	46.5	47.4	49.0	49.8	50.5	50.9	50.1	47.8	40.4						
(277, DEG K) 1000	47.4	44.9	45.3	47.0	49.6	51.4	53.3	53.7	52.7	50.8	40.5						
TWET 35, DEG F 1250	48.1	47.7	49.2	53.4	55.0	57.6	59.0	59.1	58.3	56.4	45.2						
(275, DEG K) 1600	45.0	45.0	47.1	50.1	52.5	55.0	56.2	56.3	55.0	52.2	40.6						
RHOA 4.24 GM/M3 2000	48.1	42.8	44.0	46.1	47.6	50.2	50.6	50.9	50.1	47.5	38.2						
(.00424 KG/M3) 2500	48.3	42.5	44.6	46.8	50.2	52.4	53.3	54.5	54.0	51.2	41.0						
NFA 5434. RPM 3150	48.5	43.0	45.3	47.9	51.7	54.7	54.8	54.7	54.2	52.5	40.0						
(569, RAD/SEC) 4000	41.3	45.6	45.9	50.0	53.8	57.5	58.3	58.7	58.2	55.6	41.4						
NFK 5542. RPM 5040	48.5	43.1	45.1	48.8	53.1	56.7	57.3	58.9	57.9	54.9	39.6						
(580, RAD/SEC) 6300	39.9	42.6	45.2	48.5	52.6	55.8	57.8	58.0	56.9	50.5	37.9						
NFB 8823. RPM 8000	38.8	40.6	43.4	46.9	51.4	54.2	56.4	56.4	54.9	48.0	33.6						
(924, RAD/SEC) 10000	34.5	38.8	41.9	45.7	50.9	54.0	55.2	55.0	53.4	44.5	29.8						
NO. OF BLADES 15 12500	32.8	36.8	40.9	44.9	50.4	52.9	53.7	52.6	51.5	41.1	25.8						
FAN TIP SPEED 14000	29.8	29.4	32.5	36.9	41.1	44.0	47.8	46.4	44.1	32.5	12.2						
474. FT/SEC 20000	19.7	24.0	26.2	30.5	35.2	38.1	39.5	39.9	38.8	29.2							
25000	11.7	17.8	15.8	20.5	25.5	28.8	30.5	29.3	25.3	16.5							
31500		5.9	4.8	10.4	14.4	17.5	18.3	18.9	18.1								
40000						8.4	8.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.1	58.8	60.9	62.9	65.2	67.0	67.9	67.8	67.2	64.3	55.6						
PNDB	68.1	69.9	70.8	73.8	77.1	79.9	80.8	81.0	80.5	78.2	65.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 3 DAY 11 HR. 18.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	73.2	75.4	74.9	80.5	80.8	80.1	77.0	70.2	72.0	75.5	77.7							112.0
VEHICLE R-85	125	66.7	68.4	71.7	69.0	70.5	68.1	68.0	72.0	71.5	72.0	75.2							104.7
CONFIG [illegible]	160	65.0	65.7	65.9	66.5	66.3	66.6	68.8	69.7	71.7	73.5	75.4							103.6
LOC SCHENECTADY	200	63.7	64.4	64.9	66.2	67.0	69.4	70.0	71.5	72.7	75.3	77.1							104.8
DATE 1/17/75	250	66.9	68.2	68.6	69.2	70.0	70.4	71.3	72.5	72.4	74.0	74.9							105.2
RUN 5303	315	69.0	69.7	70.4	70.7	70.8	71.4	71.0	71.7	72.2	73.5	74.6							105.5
TAPE	400	66.3	66.7	67.9	68.2	68.5	69.1	70.0	71.0	71.7	73.0	73.9							104.1
BAR 29.8 HG	500	65.8	66.4	67.1	68.2	68.3	69.0	71.0	72.7	72.7	73.5	73.4							104.6
(00707. KG/M2)	630	67.3	69.4	70.9	71.5	72.3	73.7	74.3	75.5	75.2	75.0	73.4							107.4
TAMB 39. DEG F	800	68.3	68.9	69.4	70.2	71.1	72.2	73.5	75.2	75.4	75.8	73.7							106.9
(277. DEG K)	1000	65.1	66.7	66.6	68.5	69.8	72.2	74.2	75.7	77.2	77.0	72.9							107.2
TWET 35. DEG F	1250	68.3	68.7	68.6	70.8	72.1	74.7	76.2	79.0	80.2	81.5	75.2							111.3
(275. DEG K)	1600	64.1	64.5	65.1	67.1	68.4	70.7	72.5	74.5	75.5	76.3	70.7							105.0
HACT 4.24 GM/M3	2000	63.4	64.3	65.1	67.4	68.2	71.5	73.0	75.5	77.0	77.6	73.2							106.9
(.00424 KG/M3)	2500	69.9	71.3	74.9	76.4	79.4	81.3	83.0	86.0	88.2	86.9	80.7							117.0
NFA 5440. RPM	3150	69.1	71.3	72.9	75.7	78.5	82.0	83.9	85.2	86.2	85.1	78.6							116.1
(570. RAD/SEC)	4000	70.6	72.5	74.3	77.4	81.2	84.5	86.9	88.6	88.7	86.1	79.6							118.7
NFK 5540. RPM	5000	66.3	67.5	69.8	72.9	75.9	80.4	83.8	83.8	83.6	82.3	75.8							114.4
(581. RAD/SEC)	6300	66.4	67.6	70.0	72.6	76.8	80.4	83.1	84.6	85.4	82.0	75.6							114.9
NFD 8823. RPM	8000	65.0	67.3	69.3	73.3	77.5	81.1	83.1	84.4	85.0	81.9	75.5							115.0
(924. RAD/SEC)	10000	70.1	70.9	74.6	79.9	85.1	91.0	90.9	86.6	86.1	82.7	76.9							123.8
NO. OF BLADES 15	12500	65.8	66.6	68.7	73.7	78.5	81.6	83.3	84.7	85.6	81.6	75.4							115.7
FAN TIP SPEED	16000	63.2	64.3	65.9	70.9	76.7	78.6	80.9	83.3	83.9	79.4	74.1							113.9
475. FT/SEC	20000	61.9	63.2	64.1	68.8	73.1	76.7	79.1	82.1	84.3	78.9	73.1							113.6
	25000	62.8	63.6	62.4	67.0	70.7	74.2	77.1	79.5	81.0	76.6	70.8							111.5
	31500	59.1	61.2	62.1	66.3	69.5	73.3	76.0	79.3	79.8	75.6	68.3							111.0
	40000	58.3	59.6	60.9	63.7	66.6	70.3	72.9	75.4	76.2	72.6	63.7							109.5
	50000	59.8	58.7	61.2	61.8	63.0	66.7	69.6	70.2	71.7	69.2	59.8							107.4
	63000	60.6	59.0	61.2	60.4	60.0	62.8	63.7	63.9	64.5	63.0	58.2							105.1
	80000	62.4	64.4	60.7	60.0	59.3	60.0	60.2	60.3	59.4	58.8	57.2							107.6
OVERALL MEASURED																			
OVERALL CALCULATED		81.7	82.9	85.1	87.5	90.5	94.4	95.6	96.0	96.7	94.6	89.9							127.7
	PNLB	93.8	95.2	97.1	99.6	102.6	105.7	107.6	108.9	109.4	107.7	102.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 11 HR. 15.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-D
LOC SCHENECTADY
DATE 1/17/75
RUN 53/3
TAPE
BAR 29.8 HG (00707. N/M2)
TAMB 30. DEG F (277. DEG K)
THET 35. DEG F (275. DEG K)
HACT 4.24 GM/M3 (.00424 KG/M3)
NFA 5440. RPM (570. RAD/SEC)
NFK 5546. RPM (581. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 475. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.5	52.7	56.8	58.8	59.2	58.4	54.8	47.2	47.5	49.0	47.6						
125	43.0	45.6	49.5	47.2	48.9	46.3	45.7	48.8	46.9	45.3	44.9						
160	41.1	42.8	43.7	44.6	44.6	44.8	46.4	46.5	47.1	46.7	44.9						
200	39.8	41.4	42.6	44.3	45.2	47.4	47.6	48.2	47.9	48.3	46.5						
250	42.9	45.1	46.2	47.2	48.1	48.3	48.7	49.1	47.8	46.9	44.8						
315	44.8	46.5	47.9	48.6	48.9	49.3	48.4	48.2	47.2	46.3	43.5						
400	42.0	43.4	45.3	46.0	46.5	46.9	47.3	47.4	46.6	45.6	42.8						
500	41.4	43.1	44.5	46.0	46.2	47.6	48.2	49.0	47.5	45.9	41.8						
630	44.8	46.0	48.1	49.1	50.1	51.3	51.3	51.6	49.8	47.3	41.6						
800	43.6	45.3	46.5	47.8	48.7	49.7	50.5	51.2	49.9	47.8	41.5						
1000	40.2	42.9	43.6	45.9	47.3	49.5	51.1	51.6	51.5	48.8	40.4						
1250	43.3	42.8	45.5	48.1	49.5	51.9	52.9	54.7	54.3	53.1	42.3						
1600	38.9	40.4	41.8	44.2	45.6	47.8	49.0	50.0	49.3	47.6	37.4						
2000	37.9	39.9	41.6	44.3	45.2	48.4	49.3	50.8	50.6	48.5	39.4						
2500	44.2	46.8	51.2	53.2	55.3	57.9	59.1	61.0	61.6	57.5	46.5						
3150	43.1	46.5	48.9	52.2	55.1	58.4	59.8	59.9	59.2	55.2	43.7						
4000	44.0	47.2	49.9	53.5	57.4	60.5	62.3	62.9	61.1	55.5	43.6						
5000	39.4	41.9	45.1	48.7	51.9	56.2	58.9	57.8	55.7	51.2	39.2						
6300	38.6	41.2	44.5	47.7	52.0	55.5	57.5	57.8	56.5	49.7	37.2						
8000	35.9	39.6	42.7	47.3	51.7	55.0	56.3	56.2	54.4	47.7	34.2						
10000	39.0	41.5	46.4	52.4	57.7	63.4	62.5	56.7	53.6	45.8	33.7						
12500	31.9	34.7	38.2	44.0	49.0	51.8	52.5	52.1	50.0	40.8	24.4						
16000	24.6	28.3	31.5	37.5	41.6	45.1	46.2	46.4	43.2	32.2	13.7						
20000	17.3	21.7	24.7	30.6	35.2	38.4	39.3	39.5	37.0	23.2	0.3						
25000	7.3	14.4	15.8	21.9	28.1	28.9	29.9	28.9	24.2	8.7							
31500		0.6	5.0	11.1	14.9	17.9	18.2	16.7	9.1								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.2	58.5	61.5	63.7	66.0	68.8	69.4	69.0	68.8	64.0	56.3						
PNDB	67.2	70.0	72.8	75.7	78.0	81.7	83.0	83.3	81.9	77.8	67.8						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROC. DATE = MONTH 3 DAY 11 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	55. (.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	74.9	75.9	73.1	72.7	71.4	70.2	70.1	70.2	73.0	76.3	80.1							100.0
VEHICLE R-5A	125	70.3	70.6	71.9	71.4	72.4	70.7	70.9	74.4	75.2	78.8	79.9							107.8
CONFIG 75-19	160	68.3	68.9	69.1	70.2	69.9	70.2	72.6	74.2	75.7	78.1	80.1							107.7
LOC SFMENECTADY	200	67.8	68.4	68.6	70.7	71.6	73.4	74.4	76.1	77.0	79.6	81.6							109.2
DATE 1/17/75	250	70.8	71.4	72.4	73.1	73.6	73.9	74.8	75.4	76.7	78.3	79.6							109.1
RUN 53/4	315	72.5	73.4	73.6	74.4	74.4	74.2	74.9	75.4	76.5	77.6	78.8							109.3
TAPE	400	70.6	70.6	71.1	72.2	72.1	73.2	73.6	74.6	75.2	76.9	78.3							107.9
BAR 29.8 HG	500	69.3	69.4	69.9	70.9	72.4	72.9	74.6	75.4	76.5	77.3	77.4							108.1
(99707. N/M2)	630	72.4	71.9	73.9	74.9	75.4	76.7	77.6	78.2	78.2	78.8	77.1							110.5
TAMB 59. DEG F	800	71.2	72.1	72.6	73.7	74.4	75.7	76.6	77.7	78.0	78.9	76.6							109.9
(277. DEG K)	1000	68.3	69.9	69.9	72.2	73.1	75.2	77.3	78.4	79.7	79.3	75.8							110.0
TWET 35. DEG F	1250	68.4	68.4	69.6	71.5	73.4	75.5	77.3	78.4	79.2	79.9	75.9							110.0
(275. DEG K)	1600	71.4	71.2	71.4	74.5	76.5	78.5	79.8	80.6	82.2	83.1	78.4							112.9
HACT 4.24 GM/M3	2000	67.7	68.2	69.1	71.3	73.2	75.3	77.1	78.6	80.7	80.1	75.1							110.3
(.00424 KG/M3)	2500	70.2	71.7	72.6	75.9	78.0	81.0	82.1	83.9	86.2	83.4	78.9							115.2
NFA 6211. RPM	3150	74.4	76.5	77.4	81.2	84.0	87.5	89.3	89.8	92.5	90.2	83.1							121.5
(650. RAD/SEC)	4000	73.4	75.5	77.1	81.1	84.0	87.5	89.7	90.0	89.9	88.6	81.3							120.7
NFK 6334. RPM	5000	71.6	73.4	75.5	77.9	81.7	85.4	87.9	89.0	88.4	85.1	80.0							119.0
(663. RAD/SEC)	6300	69.9	71.5	73.5	78.9	80.4	84.4	86.4	88.0	88.9	84.5	79.3							118.4
NFB 6823. RPM	8000	69.5	71.5	73.3	78.0	81.1	84.4	87.5	88.5	88.5	84.3	78.7							118.8
(924. RAD/SEC)	10000	69.7	70.6	72.4	77.4	80.9	84.2	86.5	88.3	89.2	84.3	78.6							118.7
NO. OF BLADES 15	12500	68.7	70.8	72.7	77.7	81.6	83.9	86.9	89.4	88.9	83.9	78.8							119.2
FAN TIP SPEED	16000	66.7	68.8	70.1	75.4	79.8	82.1	85.2	87.7	87.7	82.2	77.3							118.0
542. FT/SEC	20000	66.2	67.6	69.1	75.3	78.4	81.7	84.7	87.0	89.6	82.5	77.0							118.7
	25000	65.4	66.6	67.4	72.9	76.1	79.4	82.4	84.7	85.5	80.4	74.2							116.4
	31500	65.2	66.2	66.1	72.0	75.3	78.8	80.9	83.4	84.3	79.7	72.5							116.2
	40000	64.4	65.3	65.4	69.2	71.9	75.4	78.7	80.0	81.0	76.5	68.2							114.5
	50000	66.8	66.4	67.4	68.8	69.1	72.0	74.7	75.3	76.0	73.3	65.6							112.6
	63000	68.2	66.9	66.4	68.1	68.1	70.1	69.8	69.8	69.3	68.8	64.9							111.7
	80000	71.0	69.1	69.4	68.2	67.4	68.5	67.8	67.7	65.9	67.6	64.9							115.2
OVERALL MEASURED																			
OVERALL CALCULATED		85.1	84.3	86.9	89.9	92.6	95.6	97.8	99.2	100.1	96.9	92.9							130.5
	PNDB	97.4	98.8	99.8	102.9	105.5	108.4	110.4	111.1	112.8	110.7	105.8							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 3 DAY 11 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	63. (1.08)	73. (1.24)	83. (1.41)	93. (1.58)	103. (1.76)	113. (1.94)	123. (2.13)	133. (2.32)	143. (2.52)	153. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.1	53.2	51.1	51.0	47.8	48.4	47.9	47.1	46.5	49.8	50.8						
125	46.5	47.8	49.7	49.6	50.7	48.8	48.6	51.3	50.7	50.2	49.6						
160	44.4	45.0	46.9	48.3	48.1	48.3	50.2	50.9	51.1	51.3	49.8						
200	43.4	45.4	46.3	48.7	49.8	51.4	51.9	52.8	52.2	52.6	50.9						
250	45.7	48.3	50.3	51.1	51.7	51.8	52.3	52.0	51.8	51.2	48.7						
315	48.4	50.2	51.1	52.3	52.4	52.0	52.2	51.9	51.5	50.3	47.7						
400	46.3	47.4	48.6	50.0	50.1	50.9	50.9	51.8	50.1	49.4	47.8						
500	44.9	46.0	47.2	48.7	50.2	50.6	51.8	51.7	51.2	49.9	45.8						
630	47.8	48.4	51.1	52.6	53.2	54.3	54.7	54.3	52.9	51.1	45.3						
800	47.2	48.5	49.5	51.2	52.0	53.2	53.5	53.7	52.4	50.9	44.5						
1000	44.1	44.1	46.8	49.6	50.7	52.8	54.2	54.3	54.0	51.2	43.1						
1250	43.4	44.5	46.5	48.8	50.8	52.7	54.8	54.1	53.3	51.4	43.0						
1600	46.2	47.1	48.0	51.6	55.7	55.5	56.3	56.1	56.1	54.4	43.1						
2000	42.2	43.9	45.6	48.2	50.3	52.1	53.4	53.9	54.4	51.1	41.4						
2500	44.5	47.2	48.9	52.6	54.9	57.7	58.2	58.9	59.6	54.8	42.7						
3150	48.4	51.7	53.4	57.6	60.6	63.9	65.1	64.6	65.5	60.3	48.2						
4000	46.8	50.2	52.6	57.2	60.2	63.5	65.1	64.3	62.4	54.8	45.3						
5000	44.7	47.9	50.8	53.7	57.7	61.2	63.8	62.9	60.5	54.1	43.4						
6300	42.2	45.1	48.0	51.9	55.6	59.5	60.8	61.2	60.8	52.3	40.9						
8000	40.7	43.8	46.7	52.8	55.2	58.3	60.7	60.4	58.1	50.1	37.4						
10000	37.6	41.2	44.2	49.8	53.6	56.6	58.1	58.3	56.6	47.4	33.4						
12500	34.8	38.9	42.2	47.9	52.1	54.8	56.1	56.8	53.3	43.1	27.9						
16000	28.2	32.8	35.8	41.9	46.7	48.6	50.5	50.8	47.0	35.8	18.9						
20000	21.6	26.2	29.7	37.0	40.5	43.4	44.8	44.5	42.2	26.8	4.2						
25000	12.1	17.3	20.8	27.8	31.4	34.2	35.3	34.8	28.7	12.5							
31500		5.6	9.8	16.8	20.8	23.5	23.8	20.9	13.6								
40000					2.6	4.9	5.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.3	61.3	62.6	65.5	67.9	70.5	71.9	71.7	70.9	66.2	59.7						
PNDB	71.2	73.9	75.7	79.3	82.0	84.7	85.9	85.6	85.6	80.8	70.7						

SIDELINE 200. FT. (60.96 M)

VEHICLE P-55

CONFIG [illegible]

LOC SCHENECTADY

DATE 1/17/75

RUN 53/4

TAPE

BAR 29.8 MG (100707. N/M2)

TAMB 39. DEG F (277. DEG K)

TWET 35. DEG F (275. DEG K)

MACT 4.24 GM/M3 (.00424 KG/M3)

NFA 6211. RPM (650. RAD/SEC)

NFK 6334. RPM (663. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 542. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 3 DAY 11 HR. 15.6

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	51. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	68.0	73.1	77.9	77.7	77.4	71.7	71.6	77.4	76.2	81.1	84.6							110.2
VEHICLE R-55	125	74.5	79.6	79.9	77.9	77.1	74.9	74.6	77.9	79.0	80.8	83.6							112.7
CONFIG T-18	160	71.8	72.1	72.4	73.4	72.7	73.2	74.1	77.2	79.2	81.9	83.6							111.2
LOC SCHENECTADY	200	78.8	78.9	71.6	72.9	74.1	78.1	77.1	78.9	80.0	83.1	85.1							112.3
DATE 1/17/75	250	74.5	74.4	75.6	78.6	78.9	77.1	78.1	78.9	80.2	82.3	83.8							112.7
RUN 53/5	315	75.5	78.1	76.4	77.9	77.4	77.7	78.3	78.9	79.8	81.5	82.8							112.7
TAPE	400	74.1	74.1	74.1	75.2	75.6	75.9	77.4	78.4	79.8	81.3	81.8							111.6
BAR 29.8 HG	500	72.3	72.6	72.6	74.2	74.9	75.7	77.6	78.7	79.5	80.8	80.9							111.2
(100777. N/M2)	630	74.9	74.1	75.4	78.9	77.7	78.9	80.6	81.4	80.7	81.8	80.9							113.2
TAMB 39. DEG F	800	74.4	74.4	75.1	76.2	77.4	78.7	79.3	80.4	81.0	81.9	80.4							112.8
(277. DEG K)	1000	71.9	72.6	72.9	74.9	75.9	77.9	78.8	81.1	82.0	81.9	79.1							112.7
THET 35. DEG F	1250	71.7	71.2	72.4	74.5	75.7	78.0	80.1	81.1	82.2	81.4	79.1							112.8
(275. DEG K)	1600	73.4	72.9	73.9	75.5	77.2	78.7	80.6	83.4	84.7	84.1	78.9							114.4
HACT 4.24 GM/M3	2000	72.4	72.5	73.6	75.6	77.2	79.3	81.3	83.4	85.6	84.1	79.1							114.7
(.00424 KG/M3)	2500	72.7	74.0	75.1	78.4	81.3	82.8	84.3	85.6	84.5	83.7	79.6							117.1
NFA 6685. RPM	3150	75.7	76.7	79.1	82.2	85.5	89.0	91.0	91.6	93.7	88.7	83.1							122.7
(731. RAD/SEC)	4000	77.1	79.3	83.8	85.4	88.9	91.2	93.5	93.5	93.0	89.9	84.8							124.4
NFK 7124. RPM	5000	73.9	75.2	77.0	80.9	84.5	87.9	91.4	91.5	90.4	86.8	81.7							121.6
(746. RAD/SEC)	6300	72.9	73.8	76.0	79.5	82.6	87.4	89.9	91.0	92.4	86.0	81.1							121.5
NF2 8423. RPM	8000	72.3	74.2	77.0	81.5	84.8	88.4	91.5	91.8	93.0	87.0	81.9							122.6
(924. RAD/SEC)	10000	71.7	73.3	75.9	80.0	84.2	87.5	90.8	92.0	93.2	86.8	81.4							122.5
NO. OF BLADES 15	12500	72.2	73.8	76.2	81.7	85.5	88.1	90.4	92.1	92.9	86.7	81.3							122.7
FAN TIP SPEED	16000	71.9	73.8	75.6	80.9	85.8	89.1	89.2	91.7	90.9	85.2	80.8							122.3
816. FT/SEC	20000	69.2	70.9	73.3	79.5	82.4	85.7	88.7	91.3	92.1	86.0	79.5							122.2
	25000	67.7	69.3	71.6	77.4	81.4	83.7	86.6	89.9	90.3	84.7	78.4							121.2
	31500	66.9	68.2	70.1	76.9	79.8	83.1	85.9	87.9	88.4	83.2	76.8							120.6
	40000	65.9	64.5	68.4	75.9	78.7	79.6	83.0	84.5	85.8	80.8	78.7							118.6
	50000	66.6	66.4	68.2	76.8	72.1	78.2	78.9	79.6	80.5	76.8	67.1							116.3
	63000	68.5	68.2	68.2	69.4	69.6	71.8	72.9	72.8	73.3	70.5	65.4							113.6
	80000	71.0	68.6	69.4	68.4	67.2	68.5	68.6	68.5	67.4	67.4	64.9							115.4
OVERALL MEASURED																			
OVERALL CALCULATED		87.5	88.6	90.0	93.3	96.0	99.0	101.3	102.5	103.3	99.8	96.8							133.7
	PNDB	100.1	101.4	102.9	106.5	108.8	111.6	113.8	114.3	115.1	111.9	108.1							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 11 HR. 15.6

NACELLE SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	44.4	50.4	51.8	51.0	58.8	49.9	49.4	49.3	51.8	54.5	54.5						
125	50.8	56.8	57.7	54.1	55.5	53.1	52.3	54.0	54.4	54.2	53.4						
160	47.9	49.2	50.4	51.4	51.1	51.3	53.7	53.9	54.4	55.0	53.1						
200	45.8	47.9	49.3	51.0	52.3	54.2	54.7	55.6	55.2	54.1	54.4						
250	50.5	51.3	53.2	54.4	55.0	55.1	55.4	55.5	55.3	55.2	53.0						
315	51.4	53.0	53.9	54.9	55.4	55.5	55.7	54.4	54.5	54.3	51.7						
400	50.8	54.9	51.6	53.0	53.4	53.7	54.6	54.8	53.9	53.9	50.5						
500	47.9	49.3	50.0	51.9	52.7	53.4	54.8	54.9	54.2	53.3	49.3						
630	50.3	50.7	52.6	54.6	55.4	56.5	57.7	57.5	55.4	53.8	49.0						
800	49.7	50.8	52.2	53.7	55.3	56.2	56.3	56.4	55.6	53.9	48.2						
1000	47.1	48.9	49.8	52.3	53.4	55.3	56.7	57.8	56.3	53.7	48.6						
1250	48.7	47.2	49.2	51.8	53.1	55.2	56.8	56.8	56.3	52.9	48.3						
1600	48.2	48.8	50.5	52.6	54.4	55.8	57.1	58.9	58.6	55.4	49.6						
2000	47.3	48.1	50.1	52.5	54.3	56.1	57.6	58.7	58.1	55.1	49.4						
2500	47.6	49.5	51.4	53.4	55.1	56.5	58.4	58.7	61.6	54.3	49.4						
3150	49.7	51.9	53.1	53.8	62.4	65.4	66.9	66.3	64.7	54.8	48.2						
4000	50.6	51.7	56.4	61.4	64.2	67.2	68.8	67.8	64.4	50.3	48.8						
5000	47.8	49.6	52.3	56.7	60.4	63.7	64.5	65.4	62.5	55.8	49.1						
6300	45.2	47.4	50.5	54.6	57.9	62.5	64.3	64.2	63.5	53.8	48.6						
8000	43.2	46.6	50.4	55.5	59.3	62.3	64.7	63.6	62.6	52.8	48.6						
10000	43.6	44.0	47.7	53.3	56.8	59.9	62.3	62.1	60.8	48.9	38.1						
12500	38.3	41.9	45.7	51.9	56.1	58.3	59.6	59.5	57.3	45.8	38.4						
16000	32.7	36.8	41.3	47.4	52.7	55.6	56.5	56.8	56.2	38.8	28.4						
20000	24.8	28.4	33.9	41.3	44.9	47.4	48.8	48.7	44.7	30.3	8.7						
25000	14.6	28.1	25.8	32.3	36.9	38.4	38.5	39.3	33.4	16.8							
31500	8.9	7.6	13.8	20.8	25.3	27.7	28.8	25.4	18.1								
40000				2.8	8.9	9.2	9.2	4.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.6	64.8	65.8	68.6	78.8	73.4	75.8	74.6	73.7	68.3	63.2						
PNDB	73.9	76.2	78.6	82.6	85.1	87.6	89.2	88.7	87.6	81.7	72.9						

SIDELINE 200. FT.
(60.96 M)
VEHICLE
CONFIG
LOC SCHENECTADY
DATE 1/17/75
RUN 53/5
TAPE
BAR 29.8 HG
(1007.7 MB/M2)
TAMB 39. DEG F
(277. DEG K)
TDEW 35. DEG F
(275. DEG K)
HACT 6.24 GM/M3
(6.8424 MG/M3)
NFA 6995. RPM
(731. RAD/SEC)
NFK 7124. RPM
(746. RAD/SEC)
NFB 6823. RPM
(974. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
610. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 11 NO. 15.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F= 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	50. (.87)	60. (1.05)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PNL
50																			
63																			
RADIAL 17. FT. 80																			
(5. MI 100	69.2	72.1	73.4	73.7	73.9	74.7	74.9	74.9	78.7	83.3	87.6								112.6
VEHICLE 125	75.4	77.6	76.6	76.4	77.1	77.2	78.6	80.2	80.7	83.9	87.1								114.1
CONFIG 160	74.3	74.6	75.1	78.4	78.1	78.4	78.9	80.4	82.2	85.1	88.9								114.3
LOC SCHENECTADY 200	73.8	73.4	74.1	75.9	77.4	79.4	80.1	81.9	83.2	86.1	88.3								115.4
DATE 1/17/75 250	73.5	73.1	73.9	75.9	81.4	82.6	83.6	85.4	85.7	87.8	89.3								117.9
RUN 53/6 315	73.8	73.6	73.9	75.4	80.5	80.9	81.3	82.4	83.8	85.3	86.8								116.1
TAPE 400	73.3	73.4	73.4	73.4	78.6	79.4	80.4	81.1	82.5	84.3	86.3								114.9
BAR 29.4 HG 500	73.3	73.4	73.9	77.2	77.9	79.2	80.6	81.9	83.2	84.3	84.9								114.6
(99727. N/M2) 630	74.9	75.4	77.3	77.4	80.4	81.9	83.4	83.7	84.2	84.9	84.1								116.1
TAMB 39. DEG F 800	77.4	77.1	77.9	79.2	80.1	81.2	82.1	83.9	84.2	84.9	84.1								118.0
(277. DEG K) 1000	77.1	75.4	75.9	77.9	79.4	80.7	82.3	83.9	84.8	84.3	82.9								119.3
TACT 75. DEG F 1250	74.4	74.7	75.9	77.5	79.4	81.0	82.6	83.1	84.5	83.4	82.4								115.2
(275. DEG K) 1600	73.7	73.9	75.1	76.8	78.5	80.8	82.1	83.4	84.7	83.4	81.1								114.9
MACT 4.24 (.00424 MACH) 2000	77.7	77.5	79.4	80.8	83.2	85.5	86.1	91.1	93.8	89.1	84.9								121.5
(.00424 M/M3) 2500	75.6	74.7	78.8	82.4	84.8	86.3	87.8	88.8	90.5	85.7	81.8								120.0
NFA 7767. RPM 3150	76.4	78.5	80.6	84.2	87.9	90.8	91.8	91.6	93.5	87.9	83.8								123.1
(813. RAD/SEC) 4000	81.1	83.2	85.3	90.8	93.8	95.2	97.7	98.8	97.4	94.1	88.8								120.8
NFK 7921. RPM 5000	78.6	78.2	80.3	85.1	87.7	91.2	94.4	93.5	92.8	84.6	83.5								124.3
(829. RAD/SEC) 6300	78.2	78.9	80.2	84.3	87.4	91.2	94.9	94.3	95.9	80.9	83.9								125.4
NFD 8423. RPM 8000	78.8	77.7	80.3	85.8	88.3	91.6	94.6	95.2	94.8	89.3	83.9								125.4
(924. RAD/SEC) 10000	78.7	78.6	79.4	83.9	87.2	91.2	93.8	95.3	94.7	89.8	83.6								125.2
NO. OF BLADES 15 12500	75.9	76.5	80.0	85.4	88.4	91.9	94.1	95.6	94.6	89.9	83.6								125.8
FAN TIP SPEED 16000	77.2	75.3	78.1	83.6	87.1	90.8	93.7	94.4	93.4	87.7	83.8								124.8
878. FT/SEC 20000	77.8	76.9	78.1	83.5	87.4	90.8	93.7	95.8	94.6	88.4	83.5								125.9
25000	71.6	73.8	76.6	82.4	85.3	88.4	92.4	94.4	94.3	87.9	82.4								125.7
31500	73.2	72.9	75.4	81.8	84.1	87.8	90.4	92.7	92.1	87.8	79.5								124.8
40000	67.9	70.3	71.9	77.4	80.4	84.4	87.5	88.8	88.8	84.8	74.2								122.8
50000	68.1	68.7	70.4	73.5	76.3	80.8	83.8	83.3	83.7	79.8	69.9								120.1
63000	68.5	68.2	68.7	69.4	73.9	73.8	76.8	76.5	74.3	73.9	68.1								118.4
80000	71.8	72.1	69.4	69.4	67.9	69.3	78.1	78.2	69.9	68.6	64.9								116.8
OVERALL MEASURED																			
OVERALL CALCULATED	93.3	91.3	93.1	94.9	99.5	102.3	105.1	106.1	105.8	101.9	99.3								137.1
PNDB	103.4	104.8	106.4	110.5	112.9	115.2	117.5	116.5	110.1	115.1	111.5								

FULL SCALE Data [illegible] Program

PROG. DATE - MONTH 3 DAY 31 NO. 19.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	57. (0.99)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 200. FT.																	
(60.96 M)	1?0	45.4	49.4	51.3	57.8	52.1	52.9	52.7	51.8	54.3	54.9	57.5					
VEHICLE A-85	125	52.0	54.6	54.5	54.4	55.5	55.3	54.3	57.0	56.2	57.2	56.9					
CONFIG [illegible]	150	53.4	51.7	57.9	54.8	54.4	54.5	54.5	57.2	57.6	58.3	58.4					
LOC SCHENECTADY	200	49.8	50.4	51.4	57.9	55.6	57.4	57.7	58.8	58.5	59.1	57.7					
DATE 1/17/75	2?0	54.5	55.8	57.5	58.9	57.5	60.6	61.1	62.0	60.8	60.7	57.5					
RUN 53/A	315	54.9	56.2	57.1	58.3	58.7	58.8	58.7	58.8	58.0	58.1	55.7					
TAPE	400	53.3	54.1	54.8	58.2	58.6	57.2	57.8	57.5	57.4	56.9	55.8					
BAR 29.8 MB	500	50.9	52.0	53.2	54.9	55.7	56.9	57.9	58.2	58.8	58.9	53.3					
([illegible] N/M2)	630	52.3	52.9	55.1	57.1	58.2	59.5	60.4	59.8	58.9	57.1	52.3					
TAMB 35. DEG F	800	52.7	53.5	55.0	56.7	57.4	58.7	60.0	59.9	58.9	56.9	52.8					
(277. DEG K)	1000	53.3	51.8	57.4	58.3	58.9	58.1	59.2	59.4	58.3	58.2	58.4					
TWET 35. DEG F	1250	49.4	50.7	52.7	54.8	56.8	58.2	59.3	58.8	58.0	58.0	49.5					
(275. DEG K)	1600	48.5	49.8	51.8	54.9	55.7	57.8	58.6	58.9	58.4	58.7	47.9					
HACT 4.24 GM/M3	2000	52.2	53.1	55.4	57.7	62.3	62.4	64.4	64.4	64.4	60.1	51.1					
(.00424 LB/M3)	2500	50.3	52.2	54.9	59.1	61.4	63.8	63.7	63.9	63.8	58.3	47.4					
WFA 7707. RPM	3150	50.4	53.7	56.6	60.4	63.8	66.4	67.4	66.3	66.5	58.1	48.9					
(813. M/SEC)	4000	54.6	57.3	60.9	64.4	69.2	71.2	73.1	73.8	69.8	63.5	52.8					
WFR 7921. RPM	5000	49.7	52.6	55.4	60.9	63.7	66.9	69.5	67.4	65.8	57.9	48.9					
(829. M/SEC)	6300	48.4	51.9	54.8	59.4	62.6	66.2	69.3	66.4	66.9	57.5	45.4					
WFB 8023. RPM	8000	46.7	50.1	53.7	58.8	62.5	65.3	67.7	67.1	64.1	55.1	42.4					
(824. M/SEC)	10000	43.8	47.2	51.2	56.3	59.4	63.6	65.3	65.3	62.1	52.1	38.6					
NO. OF BLADES 15	12500	41.3	44.7	49.1	55.7	58.1	62.8	63.3	63.8	59.8	49.1	32.8					
FAN TIP SPEED	16000	34.7	38.5	43.8	50.9	53.9	57.1	58.8	57.5	52.7	40.5	22.7					
870. FT/SEC	20000	28.4	33.4	38.7	45.3	49.5	51.8	53.8	52.5	47.2	33.9	18.7					
	25000	18.3	24.8	30.8	37.3	40.7	43.2	45.3	43.8	37.4	20.8						
	31500	4.1	12.3	18.2	29.8	29.5	32.5	32.5	30.1	21.3	1.3						
	40000				7.3	11.1	13.9	13.7	8.8								
	50000																
	63000																
	80000																
OVERALL CALCULATED		64.8	66.4	68.5	72.8	74.4	76.6	76.5	76.1	76.3	71.3	68.7					
PNLdB		77.1	79.7	82.3	86.7	89.2	91.2	93.0	92.8	90.7	85.8	76.5					

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 31 HR. 19.0

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AMP READING)

	FREQ.	51. (0.32)	62. (1.0)	71. (1.24)	81. (1.4)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (110.)	0. (110.)	0. (110.)	0. (110.)	0. (110.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
1 S. PI	100	69.3	71.6	72.6	73.2	73.6	74.7	74.9	75.2	78.5	83.6	87.6							112.6
VEHICLE FREQ	125	74.0	77.1	76.9	76.4	77.4	77.4	79.1	80.7	81.7	83.8	87.1							114.4
CONFIG	160	74.5	75.1	75.4	76.2	76.1	76.7	78.8	79.9	82.4	85.3	87.4							114.4
LOC SOMEWHERE/ATV	200	73.5	73.8	74.4	75.7	77.1	79.1	79.8	81.4	83.0	84.1	87.8							115.1
DATE 1/17/75	250	78.3	78.4	79.4	80.4	81.1	81.9	83.3	84.4	85.2	87.3	87.8							117.4
RUN 53/7	315	78.3	79.1	79.4	80.2	80.1	80.9	81.8	81.8	82.7	85.1	86.3							115.8
TAPE	400	77.1	77.1	77.6	78.2	78.1	78.9	80.4	80.9	82.5	84.8	85.8							114.8
BAR 29.8 MB	500	74.6	75.1	75.4	77.2	77.6	78.4	80.4	81.7	83.8	84.3	84.8							114.4
(100797. N/M2)	630	74.9	77.4	78.1	79.4	79.7	81.4	83.1	83.4	84.2	84.3	84.4							115.0
TAMB 36. DEG F	800	76.8	78.4	77.8	78.9	79.6	80.7	82.4	83.2	84.8	84.6	83.4							115.6
(277. DEG K)	1000	74.3	75.6	75.9	77.4	78.1	79.9	82.1	83.6	84.8	83.9	82.8							115.0
TDEW 35. DEG F	1250	74.4	75.3	75.8	77.8	78.7	81.8	83.4	83.1	84.2	83.6	82.6							115.3
(275. DEG K)	1600	73.4	74.2	74.6	76.5	77.7	79.7	81.6	83.1	84.5	82.9	80.9							114.6
HACT 6.26 GM/M3	2000	74.9	75.2	74.6	80.6	81.7	85.3	87.6	88.9	92.5	89.1	84.6							121.1
(0.00426 LB/M3)	2500	75.7	76.7	74.6	81.9	84.3	86.8	87.1	88.4	90.9	84.4	81.9							119.7
WFA 7782. RPM	3150	76.4	78.2	78.9	83.9	86.9	90.3	91.8	91.3	93.5	87.9	83.1							122.8
(813. FT/SEC)	4000	73.8	82.7	85.8	90.4	93.3	94.7	97.5	98.3	97.8	93.1	84.5							128.5
WFK 7918. RPM	5000	76.4	77.4	86.3	94.1	87.5	90.9	94.2	94.8	92.9	84.6	83.5							124.3
(829. FT/SEC)	6300	75.8	77.5	88.5	83.4	87.1	90.9	94.8	95.8	94.7	84.8	83.3							125.1
WF3 8023. RPM	8000	75.8	77.6	90.8	84.4	87.6	91.6	94.8	95.5	94.8	84.5	84.2							125.3
(824. FT/SEC)	10000	74.4	76.1	74.4	83.6	86.9	90.7	93.5	95.5	94.7	84.8	83.4							125.1
NO. OF BLADES 15	12500	75.7	74.8	79.7	94.9	69.1	92.1	93.6	95.6	95.4	84.9	84.1							125.8
FAN TIP SPEED	16000	73.5	74.8	77.4	83.4	87.1	89.6	93.8	94.7	93.2	87.5	82.3							124.8
670. FT/SEC	20000	72.5	74.4	77.4	82.5	86.9	90.8	92.9	95.5	95.1	84.5	83.8							126.8
	25000	71.6	73.3	76.4	81.7	85.1	88.4	92.1	94.7	94.5	87.7	81.9							125.7
	31500	69.9	71.4	74.9	80.2	83.8	87.1	90.6	92.4	92.3	86.5	79.7							124.7
	40000	68.1	69.8	72.2	76.7	80.4	83.9	87.5	88.8	88.8	83.5	73.9							122.7
	50000	67.3	66.9	70.4	72.4	76.3	79.7	83.4	83.6	83.5	79.3	69.4							119.9
	63000	68.5	68.4	68.4	69.1	72.9	74.1	78.6	78.5	78.8	73.8	65.9							116.3
	80000	71.8	67.3	69.4	68.7	68.2	69.3	78.6	78.7	78.4	68.6	65.2							116.3
OVERALL MEASURED																			
OVERALL CALCULATED		98.1	91.5	93.8	96.3	99.8	102.1	104.4	104.1	105.9	101.5	99.1							136.9
	PWL	103.1	104.8	106.7	109.8	112.2	114.8	117.3	118.1	118.3	114.5	111.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 3 DAY 11 HR. 15.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	52. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.6	48.9	50.6	51.5	52.3	52.9	52.7	52.1	54.0	57.0	57.5						
125	52.3	54.3	54.7	54.6	55.7	55.6	54.8	57.5	57.2	57.2	56.9						
160	50.7	53.2	53.2	54.3	54.4	54.8	56.2	56.7	57.8	58.5	56.9						
200	49.6	50.6	52.1	53.7	55.3	57.2	57.2	58.1	58.2	59.1	57.2						
250	54.5	55.3	57.2	58.4	59.2	59.8	60.8	61.2	60.3	60.2	57.0						
315	54.1	54.0	56.9	58.1	58.2	58.8	59.0	58.1	57.7	57.8	55.2						
400	52.8	53.9	55.1	56.0	56.1	56.7	57.8	57.3	57.4	57.4	54.5						
500	50.2	51.8	53.7	54.9	55.5	56.1	57.5	57.9	57.7	56.8	53.0						
630	52.3	53.9	55.4	57.1	57.4	59.0	60.2	59.5	58.6	58.0	52.5						
800	52.2	54.8	55.0	56.5	57.3	58.2	59.5	59.2	58.4	56.6	51.2						
1000	50.1	51.9	52.8	54.8	55.7	57.3	58.0	58.5	58.3	55.7	50.1						
1250	49.4	55.0	52.5	54.3	56.1	58.2	59.3	58.8	58.3	55.2	49.8						
1600	48.2	52.1	51.3	53.6	54.9	56.8	58.1	58.6	58.4	54.2	47.6						
2000	51.5	54.9	55.1	57.5	58.8	62.1	63.9	64.2	64.1	60.1	50.9						
2500	50.0	52.2	54.0	56.8	61.1	62.7	63.2	63.4	63.0	54.0	47.7						
3150	50.4	53.4	55.9	60.4	63.4	66.7	67.6	66.1	64.5	58.1	48.2						
4000	54.3	57.4	61.4	65.4	68.5	70.7	72.8	72.5	70.4	62.5	52.5						
5000	49.5	51.9	55.6	59.0	63.4	66.7	69.3	67.9	65.0	57.6	46.9						
6300	48.2	51.1	55.0	58.9	62.4	66.0	69.3	68.2	65.7	55.8	44.9						
8000	46.7	49.3	53.4	58.8	61.7	65.5	67.2	67.4	64.4	54.3	42.9						
10000	43.3	46.7	53.4	56.1	59.6	63.1	65.1	65.6	62.1	52.1	38.1						
12500	41.8	44.9	49.2	55.2	59.6	62.3	62.8	63.0	59.8	48.1	33.1						
16000	34.9	38.8	43.3	49.9	53.9	56.1	58.3	57.8	52.5	40.2	21.9						
20000	27.9	32.9	38.4	45.3	49.9	51.6	53.1	53.0	47.7	32.8	10.2						
25000	18.3	24.1	29.8	36.6	40.4	43.2	45.0	44.0	37.7	19.8							
31500	3.9	10.8	17.7	25.1	29.3	31.7	32.8	29.9	21.6	0.8							
40000				6.5	11.1	13.4	13.7	8.6									
50000																	
63000																	
80000																	
OVERALL CALCULATED	54.3	56.7	60.4	71.5	73.8	76.4	78.2	77.9	76.3	70.9	66.5						
PNDB	76.9	79.7	82.5	86.0	88.5	90.9	92.7	92.5	90.9	84.4	78.2						

SIDELINE 200. FT. (60.96 M)
VEHICLE A-55
CONFIG ~~A-35~~ S-1D
LOC SCHENECTADY
DATE 1/17/75
RUN 537
TAPE
BAR 29.8 HG (00737. N/M2)
TAMB 39. DEG F (277. DEG K)
TWET 35. DEG F (275. DEG K)
HACT 4.24 GM/M3 (.00424 KG/M3)
NFA 7762. RPM (813. RAD/SEC)
NFK 7916. RPM (829. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 678. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 3 DAY 11 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. (5. M) 80																		
100	73.0	75.7	74.7	75.7	83.8	80.1	77.0	69.7	73.0	75.5	77.7							112.0
VEHICLE R-55 125	67.2	68.4	71.4	69.0	70.5	68.4	67.3	71.5	71.7	72.0	75.2							104.6
CONFIG TC-D 160	65.0	65.7	65.7	66.2	66.3	66.4	66.3	70.2	71.7	73.3	75.4							103.5
LOC SCHENECTADY 200	64.2	64.2	64.9	66.0	67.5	69.1	70.0	72.0	72.7	74.5	76.6							104.6
DATE 1/17/75 250	67.4	67.9	68.9	69.7	70.9	70.6	71.5	72.5	72.4	73.2	75.1							105.3
RUN 53/9 315	68.7	69.7	69.6	70.7	70.5	71.1	71.5	71.5	71.0	73.0	74.4							105.3
TAPE 400	66.5	67.2	67.6	68.5	68.5	69.6	70.0	71.0	71.4	72.8	73.4							104.1
BAR 29.0 MG 500	65.8	66.7	67.4	68.2	68.6	69.7	71.3	72.2	72.7	73.5	73.4							104.6
(98797. N/M2) 630	69.3	68.9	70.9	71.5	72.3	73.4	74.8	75.3	75.2	74.8	73.2							107.3
TAMB 39. DEG F 800	68.3	68.9	68.9	69.7	70.6	72.2	73.3	74.7	75.4	75.5	73.4							108.7
(277. DEG K) 1000	68.3	68.9	68.6	68.5	69.6	72.2	74.0	76.2	77.2	77.0	72.7							107.3
TWET 35. DEG F 1250	68.3	66.5	68.4	71.3	72.4	74.5	77.0	80.0	80.5	81.5	74.9							110.7
(275. DEG K) 1600	64.3	64.5	65.1	67.1	68.4	71.0	72.7	74.5	75.2	75.8	70.9							105.8
HACT 4.24 GM/M3 2000	63.1	64.8	65.1	67.1	68.7	71.2	73.2	75.2	77.5	77.3	73.2							106.9
(.00424 KG/M3) 2500	69.9	71.8	75.1	76.2	78.9	81.3	83.2	86.0	86.5	86.1	80.7							117.0
NFA 5443. RPM 3150	69.1	71.9	73.6	75.7	78.5	82.0	83.9	85.4	86.2	84.8	78.6							116.2
(570. RAD/SEC) 4000	70.8	72.8	74.8	77.7	80.9	84.2	86.6	87.6	88.9	86.1	80.1							118.7
NFK 5551. RPM 5000	66.3	67.5	69.8	73.2	76.2	80.7	84.3	84.1	83.9	81.8	75.8							114.7
(581. RAD/SEC) 6300	65.9	67.3	69.5	72.6	75.1	80.4	82.8	84.9	85.4	82.0	75.9							114.9
NFB 6423. RPM 8000	64.8	67.5	69.3	73.1	76.2	81.4	83.1	84.4	85.3	81.4	75.7							115.0
(924. RAD/SEC) 10000	68.8	71.1	73.9	79.4	85.1	91.2	91.9	86.6	86.4	82.7	78.9							121.2
NO. OF BLADES 15 12500	65.1	66.6	69.0	73.7	78.3	81.6	83.5	85.0	85.9	81.1	75.8							115.8
FAN TIP SPEED 16000	62.7	64.1	65.6	70.7	75.2	78.1	81.4	83.5	84.1	79.4	74.3							114.2
475. FT/SEC 20000	61.2	62.4	64.1	68.8	72.8	77.2	79.3	82.4	84.5	78.7	72.6							113.8
25000	59.8	60.9	62.4	66.5	70.7	74.4	77.1	79.8	81.0	76.3	70.0							111.6
31500	59.1	60.2	61.6	66.0	69.5	73.8	76.0	79.0	80.1	75.4	68.3							111.6
40000	58.6	58.6	60.4	63.5	66.1	70.3	73.4	75.6	77.0	72.6	63.2							109.9
50000	59.5	58.7	60.7	61.6	62.8	66.2	69.6	70.7	71.4	68.7	59.7							107.3
63000	60.6	58.7	60.7	59.9	59.3	62.3	64.2	63.9	64.5	62.7	57.7							105.8
80000	62.2	63.4	60.4	60.0	58.6	59.5	60.0	59.8	59.2	58.5	56.5							107.1
OVERALL MEASURED																		
OVERALL CALCULATED	81.6	82.9	85.0	87.5	90.5	94.6	96.0	98.1	98.8	94.3	89.9							127.8
PNDB	93.8	95.3	97.2	99.7	102.4	105.8	107.6	109.0	109.6	107.5	102.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.3	53.0	56.6	59.6	59.2	58.4	54.8	46.7	48.4	49.0	47.6						
125	43.5	45.6	49.2	47.2	48.9	46.6	45.0	48.3	47.2	45.3	44.9						
160	41.1	42.8	43.4	44.4	44.6	44.5	45.9	47.8	47.1	46.4	44.9						
200	40.3	41.2	42.6	44.0	45.7	47.2	47.6	48.7	47.6	47.5	46.0						
250	43.4	44.8	46.5	47.7	49.1	48.6	49.0	49.1	47.4	44.1	44.3						
315	44.6	44.5	47.1	48.6	48.6	49.0	48.6	48.0	47.0	45.8	43.3						
400	42.2	43.9	45.1	47.3	48.5	47.4	47.3	47.4	46.3	45.3	42.1						
500	41.4	42.3	44.7	46.0	46.4	47.4	48.4	48.5	47.5	45.9	41.8						
630	44.8	45.5	48.1	49.1	50.1	51.0	51.8	51.4	49.4	47.0	41.3						
800	43.6	45.3	46.0	47.3	48.2	49.7	50.2	50.7	49.9	47.6	41.3						
1000	40.5	42.2	43.6	45.0	47.1	49.5	50.8	52.1	51.5	48.8	40.2						
1250	43.3	42.5	45.2	48.6	49.8	51.7	53.7	55.7	54.6	53.1	42.1						
1600	39.1	40.4	41.8	44.2	45.6	48.0	49.2	50.0	49.1	47.1	37.7						
2000	37.7	39.7	41.6	44.5	45.7	48.1	49.5	50.5	51.1	48.3	39.4						
2500	44.2	47.3	51.4	52.9	55.8	57.9	59.3	61.0	61.9	56.7	46.5						
3150	43.1	46.2	49.6	52.2	55.1	58.4	59.8	60.2	59.2	55.0	43.7						
4000	44.3	47.5	50.1	53.7	57.1	60.2	62.0	62.9	61.3	55.5	44.1						
5000	39.4	41.9	45.1	49.9	52.1	56.4	59.4	58.0	56.0	50.7	39.2						
6300	38.1	40.9	44.0	47.7	51.3	55.5	57.2	58.0	56.5	49.7	37.4						
8000	35.6	39.9	42.7	47.1	50.4	55.3	56.3	56.2	54.4	47.2	34.4						
10000	37.8	41.8	45.7	51.9	57.7	63.6	63.5	56.7	53.9	45.8	33.7						
12500	31.2	34.7	38.5	44.0	48.7	51.8	52.7	52.4	50.2	40.3	24.7						
16000	24.1	28.1	31.3	37.2	42.1	44.6	46.7	46.6	43.5	32.2	14.0						
20000	16.5	21.0	24.7	30.6	34.9	38.9	39.5	39.8	37.2	22.9							
25000	6.5	11.6	15.8	21.4	26.1	29.2	29.9	29.1	24.2	8.5							
31500			4.5	10.9	14.9	18.4	18.2	16.5	9.3								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.1	58.6	61.4	63.8	65.9	68.8	69.6	69.1	66.1	63.7	56.2						
PNDB	67.3	70.1	72.9	75.8	78.6	81.6	83.0	83.3	82.1	77.3	67.6						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG
LOC SCHENECTADY
DATE 1/17/75
RUN 53/8
TAPE
BAR 29.8 HG (100707. N/M2)
TAMB 39. DEG F (277. DEG K)
T-DT 35. DEG F (275. DEG K)
HACT 8.24 GM/M3 (.00424 LB/M3)
NFA 5443. RPM (570. RAD/SEC)
NFK 5551. RPM (581. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 475. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. MI)
VEHICLE R-55
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 60/1
TAPE
BAR 29.9 MG (00867. N/M2)
TAMB 41. DEG F (278. DEG K)
TWET 37. DEG F (276. DEG K)
HACT 4.66 GM/M3 (.00466 KG/M3)
NFA 5434. RPM (569. RAD/SEC)
NFK 5531. RPM (579. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	72.2	73.7	77.7	80.5	80.0	79.4	76.3	70.2	70.7	74.8	77.2							111.3
125	66.7	68.2	72.4	68.7	71.0	68.4	68.8	71.5	72.5	72.0	74.7							104.8
160	65.2	66.2	66.4	66.5	66.8	67.4	68.3	69.7	71.5	73.3	75.7							103.6
200	63.5	64.4	64.9	66.2	67.3	69.1	70.0	72.0	72.7	75.9	76.6							104.7
250	67.2	67.4	65.6	66.7	69.0	69.9	71.3	72.0	72.7	73.7	75.1							105.0
315	68.7	69.9	69.2	70.0	70.8	71.1	70.8	71.7	72.4	73.5	74.6							105.4
400	66.0	67.2	67.4	68.0	68.5	70.1	70.5	71.0	71.7	73.0	73.9							104.2
500	65.0	66.4	66.9	67.7	68.3	69.9	71.5	72.5	72.9	73.5	73.9							104.7
630	68.1	68.2	69.9	71.7	72.6	74.2	75.3	76.5	76.5	76.3	75.2							108.1
800	68.6	69.7	69.9	71.7	72.6	74.7	75.5	76.7	76.9	77.3	76.2							108.5
1000	67.1	68.9	69.4	71.7	73.3	75.7	77.2	78.7	79.2	78.5	73.9							109.8
1250	72.3	72.5	74.1	77.3	77.9	80.7	81.5	82.7	83.5	83.8	77.9							114.3
1600	67.8	68.2	69.1	72.1	73.1	75.5	77.0	78.2	77.7	78.3	73.2							109.3
2000	64.1	65.3	66.1	68.4	69.4	71.2	72.7	75.5	77.5	77.6	72.7							107.1
2500	71.4	72.5	74.9	76.2	76.7	81.0	85.0	86.7	89.2	86.8	80.1							117.7
3150	69.9	72.0	73.4	75.9	78.7	81.7	83.9	85.4	86.2	85.6	78.6							116.3
4000	70.3	73.0	74.6	77.4	81.2	84.0	85.4	87.4	87.4	86.0	79.6							117.8
5000	68.8	70.5	72.5	75.7	78.9	82.2	84.8	86.0	85.9	84.0	77.3							116.3
6300	66.8	69.0	70.5	73.8	76.0	80.2	83.1	84.4	84.6	80.7	75.3							114.5
8000	64.7	67.2	69.3	72.8	75.5	78.8	81.6	83.1	84.8	81.4	75.4							113.7
10000	64.3	66.8	68.8	72.6	75.8	78.9	81.6	83.3	84.4	81.2	74.9							114.0
12500	63.5	65.5	67.4	71.2	74.5	77.6	80.5	82.9	83.6	80.3	73.8							113.4
16000	61.0	63.8	65.1	68.4	71.9	75.8	78.1	81.7	82.3	77.9	72.3							112.8
20000	61.1	62.9	64.8	68.8	71.8	74.9	78.0	81.1	83.3	77.9	71.6							112.5
25000	60.1	61.9	63.9	68.0	71.1	73.7	76.1	78.6	79.5	75.6	69.3							110.6
31500	59.5	60.8	63.2	67.6	70.1	73.9	75.6	78.3	79.4	75.5	68.1							111.2
40000	58.8	59.3	61.2	64.7	67.3	70.8	73.1	75.1	75.9	72.3	62.9							109.5
50000	59.6	59.1	61.1	61.4	63.9	67.0	69.7	69.7	71.5	68.7	59.2							107.2
63000	60.9	58.5	60.2	59.2	59.5	62.0	63.7	63.6	64.9	62.6	57.1							104.8
80000	62.9	63.6	60.6	59.3	58.5	59.4	59.6	59.1	59.0	58.3	56.3							107.1
OVERALL MEASURED																		
OVERALL CALCULATED	81.9	83.2	85.1	87.4	89.4	91.9	94.0	95.7	96.5	94.7	89.6							126.8
PNDB	94.0	95.9	97.5	99.9	102.6	105.2	106.9	108.6	109.4	107.9	102.7							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. BAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	48.5	51.0	55.6	58.8	58.5	57.7	54.1	47.2	46.3	48.2	47.1						
VEHICLE R-55	125	43.0	45.4	50.2	46.9	49.4	46.6	45.7	46.3	47.9	45.3	44.4						
CONFIG 75-1E	160	41.4	43.3	44.2	44.6	45.1	45.5	45.9	46.5	46.8	46.4	45.2						
LOC SCHENECTADY	200	39.5	41.4	42.6	44.3	45.5	47.2	47.6	48.7	47.9	48.0	46.0						
DATE 1/27/75	250	43.1	44.3	46.2	46.7	47.1	47.8	48.7	48.6	47.8	46.8	44.3						
RUN 66/1	315	44.6	46.8	47.4	47.9	48.8	49.0	48.1	48.2	47.5	46.3	43.5						
TAPE	400	41.7	43.9	44.8	45.8	46.5	47.9	47.8	47.4	46.6	45.8	42.6						
BAR 29.9 HG	500	40.6	43.1	44.2	45.5	46.2	47.6	48.7	48.8	47.7	45.9	42.3						
(00867. N/M2)	630	43.5	44.7	47.1	49.4	50.3	51.8	52.3	52.6	51.1	48.5	43.3						
TAMB 41. DEG F	800	43.9	46.1	47.0	49.3	50.2	52.2	52.5	52.7	51.4	49.3	42.0						
(278. DEG K)	1000	42.2	45.2	46.4	49.1	50.8	53.8	54.1	54.6	53.5	50.3	41.4						
TWET 37. DEG F	1250	47.3	48.5	51.0	54.6	55.2	57.9	58.2	58.4	57.6	55.4	45.1						
(276. DEG K)	1600	42.6	44.1	45.8	49.2	50.4	52.5	53.5	53.7	51.6	49.6	39.9						
HACT 4.66 GM/M3	2000	38.7	40.9	42.6	45.3	46.5	48.1	49.0	50.8	51.1	48.5	38.9						
(.00466 KG/M3)	2500	45.7	48.0	51.2	52.9	55.6	57.7	61.1	61.8	62.6	57.5	46.0						
NFA 5434. RPM	3150	43.8	47.2	49.3	52.4	55.3	58.2	59.8	60.2	59.2	55.7	43.7						
(569. RAD/SEC)	4000	43.8	47.7	50.1	53.5	57.4	59.9	60.7	61.6	59.8	55.5	43.6						
NFK 5531. RPM	5000	41.9	44.9	47.8	51.4	54.8	57.9	59.9	60.0	57.9	53.0	40.6						
(579. RAD/SEC)	6300	39.1	41.7	45.0	48.1	51.3	55.2	57.4	57.5	55.7	48.4	36.9						
NFD 8823. RPM	8000	35.6	39.6	42.7	46.8	49.8	52.8	54.8	54.9	53.6	47.2	34.2						
(924. RAD/SEC)	10000	33.2	37.5	40.6	45.1	48.5	51.3	53.2	53.4	51.8	44.3	29.7						
NO. OF BLADES 15	12500	29.6	33.7	36.9	41.4	44.9	47.7	49.7	50.3	47.9	39.5	22.9						
FAN TIP SPEED	16000	23.1	27.8	30.7	34.9	38.8	42.3	43.4	44.8	41.7	30.6	11.9						
474. FT/SEC	20000	16.5	21.4	25.4	30.6	33.9	36.6	38.2	38.5	35.9	22.2							
	25000	8.8	12.7	17.3	22.9	26.4	28.5	29.0	27.9	22.7	7.8							
	31500		0.2	6.1	12.5	15.5	18.5	17.8	15.8	8.6								
	40000						0.4											
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		56.5	58.8	61.6	64.1	65.8	67.7	68.9	69.3	68.4	64.4	56.5						
	PNDB	67.9	70.7	73.2	76.1	76.9	81.4	82.5	83.0	82.4	78.9	67.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 66/2
TAPE
BAR 29.9 HG (00867. N/M2)
TAMB 40. DEG F (276. DEG K)
THET 37. DEG F (276. DEG K)
HACT 4.98 GM/M3 (.00498 KG/M3)
NFA 6222. RPM (651. RAD/SEC)
NFK 6339. RPM (664. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 543. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	74.0	75.9	74.1	72.9	70.6	70.2	70.4	70.9	73.0	76.8	79.9							108.1
125	68.8	70.6	73.1	70.7	71.9	71.2	71.1	74.2	75.8	77.1	79.4							107.7
160	69.3	69.9	69.4	69.9	73.1	70.2	72.4	72.9	75.2	77.8	80.1							107.5
200	68.3	68.4	69.4	69.4	71.4	73.8	73.6	75.9	77.0	79.6	81.1							109.0
250	70.5	71.1	72.1	72.1	72.6	73.6	75.1	75.4	76.5	78.3	79.6							108.9
315	72.5	73.6	73.9	73.4	74.1	74.7	74.8	75.4	76.2	78.1	79.1							109.3
400	70.6	70.4	71.4	71.4	71.9	73.7	74.1	75.1	75.7	77.8	79.3							108.4
500	68.6	68.9	69.9	70.7	71.6	73.7	74.6	75.2	76.2	77.6	78.4							108.1
630	71.1	71.4	72.6	74.2	75.2	76.9	78.4	79.4	79.0	79.6	77.9							111.0
800	71.9	72.4	72.6	74.2	75.4	76.9	78.1	79.1	80.0	80.1	77.4							111.1
1000	69.9	71.4	71.9	74.2	75.6	76.4	79.6	80.6	81.2	81.1	76.8							112.1
1250	70.2	70.4	72.4	74.5	76.4	76.5	80.1	81.1	82.0	82.1	76.9							112.6
1600	72.4	72.7	74.9	77.0	79.2	81.5	81.6	82.4	84.0	83.1	78.9							115.3
2000	68.7	69.2	70.6	72.1	73.5	75.0	75.8	78.4	80.7	80.1	74.9							110.2
2500	70.4	72.7	73.9	76.1	78.0	81.0	81.6	84.4	87.0	83.6	78.1							115.5
3150	74.7	77.0	78.6	81.9	84.3	87.5	89.0	91.1	93.2	90.1	83.6							122.0
4000	73.1	75.4	77.5	81.4	84.0	86.5	88.4	89.0	89.4	86.6	80.5							119.9
5000	73.3	75.4	77.7	81.1	83.2	87.2	88.4	90.2	90.4	86.6	80.4							120.4
6300	70.4	72.5	74.4	78.5	80.6	84.4	87.4	88.0	88.6	84.3	78.3							118.5
8000	68.5	71.1	73.5	77.2	79.5	83.3	85.7	87.5	87.0	83.7	77.6							117.5
10000	68.3	71.2	74.0	78.0	80.3	83.7	85.7	87.7	88.6	84.5	78.0							118.2
12500	68.3	69.9	72.1	76.1	78.8	82.3	84.3	87.5	87.8	83.1	76.8							117.5
16000	65.3	67.2	69.5	73.0	76.4	79.7	82.6	85.6	86.1	80.9	75.2							115.9
20000	65.4	66.5	69.0	73.4	75.8	79.6	82.0	84.9	87.5	81.9	75.4							116.6
25000	64.7	66.6	68.1	72.7	74.9	78.4	80.9	83.2	84.8	79.4	73.2							115.3
31500	64.3	66.0	68.4	72.5	74.9	78.4	80.4	82.7	83.6	79.3	71.5							115.6
40000	64.1	64.7	66.1	70.2	72.1	76.1	78.2	79.5	80.9	76.7	67.4							114.3
50000	66.6	65.7	66.6	67.7	69.0	72.1	74.6	75.0	76.3	73.1	64.6							112.4
63000	68.2	65.6	67.4	66.3	66.5	68.7	69.2	69.6	69.1	68.1	64.7							110.9
80000	72.0	68.1	70.6	67.6	67.8	68.6	68.7	67.8	66.5	67.1	65.7							115.5
OVERALL MEASURED																		
OVERALL CALCULATED	85.1	86.3	87.8	90.3	92.4	95.4	97.2	98.8	100.0	97.2	92.8							120.3
PNDB	97.6	99.4	101.0	103.7	105.7	108.6	110.1	111.8	113.3	111.1	105.9							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 66/2
TAPE
BAR 29.9 HG (00867. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 37. DEG F (276. DEG K)
HACT 4.98 GM/M3 (.00498 KG/M3)
NFA 6222. RPM (651. RAD/SEC)
NFK 6339. RPM (664. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 543. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	50.4	53.2	52.1	51.2	49.0	48.4	48.2	47.8	48.5	50.3	49.8						
125	45.0	47.8	51.0	48.9	50.2	49.3	48.8	51.0	50.4	50.4	49.1						
160	45.4	47.0	47.2	48.1	48.4	48.3	50.0	49.7	50.6	51.0	49.6						
200	44.3	45.4	47.1	47.5	49.6	51.7	51.2	52.6	52.2	52.6	50.4						
250	46.5	48.0	49.7	50.1	50.7	51.6	52.6	52.0	51.6	51.2	48.7						
315	48.4	50.5	51.4	51.3	52.2	52.5	52.2	51.9	51.2	50.8	48.0						
400	46.3	47.1	48.8	49.2	49.8	51.4	51.4	51.5	50.6	50.4	48.0						
500	44.2	45.5	47.2	48.4	49.5	51.4	51.8	51.4	51.0	50.0	46.8						
630	46.6	47.9	49.9	51.8	52.9	54.5	55.4	55.5	53.6	51.8	46.0						
800	47.2	48.8	49.7	51.7	53.0	54.4	55.0	55.2	54.4	52.1	45.2						
1000	45.1	47.6	48.8	51.6	53.2	55.8	56.4	56.7	55.5	52.9	44.4						
1250	45.2	46.5	49.2	51.8	53.8	55.7	56.8	56.8	56.1	53.7	44.0						
1600	47.2	48.6	51.5	54.1	56.4	58.5	58.1	57.9	57.9	56.4	45.8						
2000	43.2	44.9	47.1	49.0	50.5	51.9	52.1	53.7	54.4	51.1	41.1						
2500	44.7	48.2	50.1	52.8	54.9	57.7	57.9	59.4	60.4	54.3	43.9						
3150	48.6	52.1	54.6	56.3	60.9	63.9	64.6	65.8	66.2	60.3	48.7						
4000	46.6	50.1	53.1	57.4	60.2	62.4	63.8	63.3	61.8	56.0	44.5						
5000	46.5	49.8	53.0	56.9	59.2	62.9	63.5	64.1	62.4	55.9	43.8						
6300	42.6	46.1	49.0	53.6	55.8	59.4	61.8	61.1	59.7	52.0	39.8						
8000	39.4	43.5	46.9	51.2	53.7	57.2	58.9	59.3	58.6	49.5	36.3						
10000	37.2	41.9	45.8	50.5	53.0	56.0	57.3	57.8	56.1	47.8	32.8						
12500	34.4	38.1	41.8	46.3	49.2	52.5	53.5	55.0	52.2	42.3	25.8						
16000	26.8	31.1	35.2	39.6	43.3	46.2	47.9	48.7	45.4	33.6	14.8						
20000	20.7	25.1	29.6	35.2	37.9	41.3	42.2	42.4	40.1	28.2	2.7						
25000	11.4	17.4	21.6	27.6	30.2	33.2	33.8	32.6	28.0	11.6							
31500		5.4	11.3	17.4	20.3	23.0	22.6	20.2	12.9								
40000				0.0	2.8	5.7	4.4										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.3	61.7	63.6	66.1	68.1	70.8	71.7	72.1	71.4	67.0	59.9						
PNDB	71.4	74.4	76.8	80.8	82.2	84.9	85.8	86.4	86.2	81.2	71.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 NR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.0	73.1	73.6	71.9	70.9	71.7	71.6	72.7	75.7	80.1	83.9							109.6
VEHICLE R-SS	125	73.8	79.6	79.9	77.2	74.9	75.4	74.1	77.2	78.0	80.6	82.9							112.1
CONFIG 75-1E	160	72.3	73.1	72.6	73.2	72.9	73.4	75.6	77.2	79.0	81.6	83.9							111.1
LCC SCHENECTADY	200	70.8	70.9	71.9	72.2	74.1	76.1	78.9	78.1	79.7	82.6	84.3							111.8
DATE 1/27/75	250	73.8	74.6	75.1	75.9	76.4	77.4	78.6	78.4	80.2	81.8	83.3							112.5
RUN 66/3	315	75.5	76.1	76.6	76.7	76.9	77.9	77.8	78.4	79.2	81.6	83.1							112.5
TAPE	400	73.6	74.1	74.1	74.4	75.4	76.4	77.6	78.1	79.2	81.6	82.3							111.7
BAR 29.9 MG	500	71.6	71.6	72.6	73.7	74.6	76.4	77.6	78.9	79.5	80.8	81.1							111.2
(00807. N/M2)	630	73.6	73.6	75.1	76.9	77.9	79.4	81.4	81.9	81.5	82.1	81.1							113.6
TAMB 40. DEG F	800	74.6	74.9	75.6	77.2	78.1	80.4	80.8	81.9	82.0	82.1	80.6							113.6
(278. DEG K)	1000	72.6	73.6	74.4	76.7	77.9	80.7	81.6	82.6	83.2	82.6	79.6							114.2
TWET 36. DEG F	1250	72.7	73.2	74.6	76.3	78.2	80.5	82.1	82.6	83.5	83.1	79.6							114.3
(275. DEG K)	1600	72.7	74.9	76.4	77.5	79.0	80.2	81.8	82.4	83.7	82.9	78.6							114.4
MACT 4.45 GM/M3	2000	72.4	74.2	75.4	77.3	78.9	79.0	80.6	82.6	84.5	82.1	78.6							114.1
(.00445 KG/M3)	2500	73.4	75.0	76.1	78.6	81.5	83.0	84.6	86.6	86.7	83.9	79.6							117.0
NFA 6999. RPM	3150	75.9	78.0	79.4	82.9	86.3	89.3	91.8	91.6	93.0	88.2	83.3							122.7
(733. RAD/SEC)	4000	76.6	79.0	81.3	84.9	87.5	90.7	93.0	92.5	93.4	88.6	83.8							123.7
NFK 7131. RPM	5000	75.3	77.9	80.8	83.9	86.5	89.9	92.4	94.0	92.6	87.0	83.0							123.6
(747. RAD/SEC)	6300	73.4	75.8	78.2	80.8	83.6	88.2	90.4	91.3	91.6	85.8	81.1							121.6
NFD 8823. RPM	8000	72.3	75.2	77.3	81.0	83.3	87.9	90.0	91.5	91.8	85.2	80.4							121.6
(924. RAD/SEC)	10000	71.6	75.0	77.6	81.6	83.9	88.0	90.8	91.8	91.6	86.3	80.6							122.1
NO. OF BLADES 15	12500	70.9	73.3	76.2	80.2	82.1	86.1	89.1	91.1	91.4	85.7	79.1							121.3
FAN TIP SPEED	16000	68.4	70.8	73.9	77.3	79.6	84.1	87.5	89.7	89.4	83.7	78.3							119.0
611. FT/SEC	20000	68.2	69.9	73.6	77.0	79.6	83.7	86.4	89.5	90.6	84.3	78.8							120.4
	25000	67.4	69.8	72.6	75.9	78.4	82.7	85.2	87.7	89.0	83.2	76.7							119.5
	31500	67.0	69.7	72.7	76.5	79.4	82.6	84.9	87.2	87.9	82.5	74.8							119.9
	40000	65.5	67.2	70.3	73.5	76.3	79.7	82.6	83.9	84.4	79.8	70.3							118.2
	50000	66.5	66.4	68.8	69.7	72.3	75.9	79.1	79.0	79.6	75.9	67.3							115.9
	63000	68.7	65.9	67.4	66.4	67.9	70.6	72.5	71.8	72.7	70.8	64.6							112.8
	80000	71.4	68.9	70.0	67.0	67.0	68.1	66.1	67.5	66.5	66.6	65.2							115.1
OVERALL MEASURED																			
OVERALL CALCULATED		87.3	89.2	90.8	93.2	95.4	98.7	101.1	102.2	102.6	98.4	93.6							123.2
PNDB		99.9	102.8	103.8	106.5	108.8	111.7	113.7	114.2	114.8	111.2	107.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 68/3
TAPE
BAR 29.9 HG (100867. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 36. DEG F (275. DEG K)
HACT 4.45 GM/M3 (.00445 KG/M3)
NFA 6999. RPM (733. RAD/SEC)
NFK 7131. RPM (747. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 911. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.4	50.4	51.6	50.2	49.3	49.0	49.4	49.6	51.3	53.5	53.8						
125	50.0	56.8	57.7	55.4	53.2	53.6	51.8	54.0	53.4	53.9	52.6						
160	48.4	50.2	50.4	51.3	51.1	51.5	53.2	53.9	54.3	54.8	53.4						
200	46.8	47.9	49.6	50.2	52.3	54.2	54.4	54.8	55.0	55.6	53.7						
250	49.7	51.5	52.7	53.9	54.5	55.3	56.1	56.0	55.3	54.7	52.5						
315	51.4	53.0	54.1	54.6	54.9	55.6	55.2	54.9	54.2	54.3	52.0						
400	49.3	50.9	51.6	52.2	53.3	54.2	54.9	54.5	54.1	54.2	51.0						
500	47.2	48.3	50.0	51.4	52.5	54.1	54.8	55.2	54.2	53.3	49.5						
630	49.1	50.2	52.4	54.6	55.7	57.0	56.4	56.0	56.1	54.3	49.3						
800	49.9	51.3	52.7	54.7	55.8	57.9	57.8	57.9	56.4	54.1	48.5						
1000	47.8	49.9	51.3	54.1	55.4	56.1	58.7	58.5	57.5	54.4	47.1						
1250	47.7	49.2	51.5	53.5	55.6	57.7	58.8	58.3	57.6	54.7	46.8						
1600	47.5	50.8	53.0	54.6	56.2	57.3	58.3	57.9	57.6	54.2	49.3						
2000	47.0	49.9	51.8	54.2	55.0	55.9	56.9	57.9	58.1	53.1	44.9						
2500	47.8	50.5	52.4	55.4	58.4	59.7	60.7	61.7	62.1	54.5	45.7						
3150	49.9	53.2	55.3	59.4	62.9	65.7	67.6	66.3	66.0	58.3	48.4						
4000	50.1	53.7	56.9	60.9	63.7	66.7	68.3	66.8	65.8	58.0	47.8						
5000	48.5	52.4	56.1	59.7	62.4	65.7	67.5	67.9	64.7	56.8	46.3						
6300	45.7	49.4	52.8	55.8	58.9	63.2	64.8	64.4	62.7	53.5	42.6						
8000	43.2	47.6	50.7	55.0	57.5	61.6	63.2	63.3	61.4	51.0	39.1						
10000	40.6	45.7	49.4	54.0	56.6	60.4	62.3	61.8	59.1	49.4	36.4						
12500	37.8	41.4	45.7	50.4	52.5	56.3	58.3	58.5	55.7	44.8	28.1						
16000	29.9	34.8	39.5	43.9	46.6	50.5	52.8	52.8	48.7	36.5	17.8						
20000	23.6	28.4	34.2	38.8	41.8	45.4	46.6	47.8	43.2	28.5	8.3						
25000	14.1	20.6	26.1	30.8	33.7	37.4	38.1	37.1	32.2	18.3							
31500	0.9	9.1	15.5	21.4	24.8	27.3	27.1	24.7	17.1								
40000				3.4	7.0	9.3	6.8	3.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.5	64.5	66.5	68.8	71.0	73.7	75.2	74.8	73.5	68.0	63.0						
PNDB	73.6	76.9	79.5	82.7	85.1	87.8	89.2	88.5	87.4	81.1	72.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI)	100	68.3	71.6	72.6	72.7	73.1	74.4	73.6	74.9	76.7	83.3	87.1							112.2
VEHICLE R-SS	125	75.0	77.4	77.1	76.4	76.9	76.9	78.4	79.9	81.0	84.1	87.1							114.1
CONFIG 75-1E	160	75.0	75.9	75.6	76.2	75.9	76.2	78.6	80.2	82.5	85.3	87.4							114.5
LOC SCHENECTADY	200	73.3	73.4	74.4	75.2	76.9	79.4	80.6	82.1	83.0	85.8	88.1							115.3
DATE 1/27/75	250	70.0	77.9	79.4	79.6	80.4	81.4	82.6	83.9	84.5	87.1	87.6							116.9
RUN 66/4	315	78.8	78.9	78.9	79.7	79.6	80.9	81.1	81.9	83.2	85.1	86.3							115.7
TAPE	400	76.6	77.1	77.4	77.7	78.1	79.2	80.4	81.6	82.7	84.8	85.8							114.9
BAR 29.9 HG	500	74.6	74.9	75.6	76.7	77.6	78.9	80.6	81.7	83.0	84.1	84.6							114.4
(00867. N/M2)	630	76.1	76.1	77.9	79.2	80.4	81.9	83.4	84.4	84.5	85.6	84.6							116.3
TAMB 40. DEG F	800	77.6	77.6	78.1	79.7	80.6	82.4	83.6	84.9	85.0	84.8	84.1							116.5
(278. DEG K)	1000	75.4	76.6	77.4	78.9	80.1	82.7	83.8	84.9	85.5	84.1	82.9							116.4
THET 36. DEG F	1250	75.7	76.2	77.4	79.0	80.7	83.0	84.1	84.9	85.2	84.4	82.6							116.5
(275. DEG K)	1600	74.7	75.2	76.4	78.0	79.2	80.7	82.1	83.6	84.7	83.1	80.9							115.1
HACT 4.45 GM/M3	2000	77.4	79.2	81.1	82.1	83.2	85.0	86.3	88.6	90.7	86.9	83.9							119.8
(.00445 KG/M3)	2500	76.4	78.5	79.6	83.4	84.8	86.5	87.1	89.9	91.5	86.2	82.1							120.6
NFA 7773. RPM	3150	76.9	79.2	81.4	84.9	87.5	90.5	92.3	92.1	93.5	88.4	83.6							123.4
(814. RAD/SEC)	4000	81.4	84.5	86.3	90.1	92.3	94.7	96.5	96.3	97.7	92.9	87.5							126.2
NFK 7919. RPM	5000	77.6	80.2	83.0	87.1	89.2	92.4	94.7	95.2	94.6	89.8	84.2							125.6
(829. RAD/SEC)	6300	76.7	80.5	82.5	87.0	89.1	91.9	93.9	95.5	94.4	88.5	84.1							125.4
NFB 8023. RPM	8000	75.3	77.9	80.8	84.8	86.8	90.9	93.0	94.8	94.0	88.0	82.9							124.3
(824. RAD/SEC)	10000	75.1	78.3	81.1	85.8	87.6	92.0	94.3	95.5	94.6	88.3	83.3							125.5
NO. OF BLADES 15	12500	74.9	78.5	80.8	83.9	86.3	91.1	92.9	95.1	94.4	88.2	82.3							125.8
FAN TIP SPEED	16000	72.2	74.5	77.4	81.1	84.3	87.6	90.7	93.2	92.4	86.8	81.8							123.1
879. FT/SEC	20000	72.8	73.9	77.8	81.3	84.1	87.5	91.4	93.5	93.6	86.8	81.8							124.1
	25000	70.7	73.8	76.4	80.4	83.1	86.7	89.4	92.5	93.8	86.7	80.2							123.8
	31500	78.2	73.2	76.4	81.8	83.4	86.9	88.9	91.5	91.4	85.3	79.8							123.6
	40000	68.8	70.9	74.5	77.5	80.3	84.8	86.8	88.1	87.9	82.8	73.3							122.2
	50000	67.5	67.6	71.4	73.4	76.5	80.1	83.1	83.5	83.4	79.4	69.8							119.8
	63000	69.8	68.2	68.4	67.9	69.9	73.6	76.8	76.8	76.2	73.2	68.1							115.8
	80000	71.4	68.7	70.8	67.2	67.5	68.8	69.4	69.2	69.8	67.9	65.2							115.8
OVERALL MEASURED																			
OVERALL CALCULATED		90.3	92.1	93.9	97.1	99.8	102.1	104.1	105.8	105.2	101.2	99.9							120.5
	PNDB	103.6	105.9	107.8	110.8	112.6	115.1	116.8	118.3	118.2	114.4	110.9							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.6	48.9	50.6	51.0	51.5	52.7	51.4	51.8	54.3	56.8	57.0						
125	51.3	54.6	55.0	54.6	55.2	55.1	56.1	56.8	56.4	57.4	56.9						
160	51.2	53.0	53.4	54.3	54.1	54.3	56.2	56.9	57.8	58.5	58.8						
200	49.3	50.4	52.1	53.2	55.1	57.4	58.2	58.8	58.2	58.9	57.4						
250	54.0	54.8	57.0	57.6	58.5	59.3	60.1	60.5	59.6	60.0	56.7						
315	54.6	55.7	56.4	57.6	57.7	58.8	58.5	58.4	58.2	57.8	55.2						
400	52.3	53.9	54.8	55.5	56.1	56.9	57.6	58.0	57.6	57.4	54.8						
500	50.2	51.5	53.0	54.4	55.5	56.6	57.8	57.9	57.7	56.5	53.8						
630	51.6	52.7	55.1	56.8	58.2	59.5	60.4	60.5	59.1	57.8	52.8						
800	52.9	54.0	55.2	57.2	58.3	59.9	60.5	60.9	59.4	56.8	52.9						
1000	50.6	52.9	54.3	56.3	57.7	60.1	60.7	60.8	59.6	55.9	50.4						
1250	50.7	52.2	54.2	56.3	58.1	60.2	60.8	60.6	59.3	55.9	49.8						
1600	49.5	51.1	53.0	55.1	56.4	57.8	58.6	59.1	58.6	54.4	47.6						
2000	52.8	54.9	57.6	59.0	60.3	61.9	62.6	63.9	64.4	57.8	50.1						
2500	50.8	54.0	55.9	60.1	61.6	63.2	63.2	64.9	64.9	56.6	47.9						
3150	50.9	54.4	57.3	61.4	64.1	66.9	66.1	66.8	66.5	58.6	48.7						
4000	54.8	59.2	61.9	66.2	68.4	70.7	71.8	72.5	70.1	62.3	51.5						
5000	50.7	54.6	58.3	62.9	65.2	66.2	66.8	66.2	64.7	56.8	47.6						
6300	48.9	54.1	57.8	62.1	64.4	67.8	68.3	68.7	65.5	56.3	45.6						
8000	46.2	50.3	54.2	58.7	61.0	64.8	66.2	66.6	63.6	53.8	41.6						
10000	44.1	49.8	52.9	58.3	60.3	64.1	65.8	65.6	62.1	51.4	38.1						
12500	41.8	44.7	49.4	54.1	56.6	61.3	62.1	62.5	58.7	47.3	31.4						
16000	33.7	38.5	43.8	47.7	51.1	54.8	56.8	56.3	51.7	38.7	28.8						
20000	27.4	32.4	38.4	43.8	46.3	49.1	51.6	51.8	46.2	31.8	8.3						
25000	17.4	24.6	29.8	35.3	38.5	41.4	42.3	41.8	36.2	18.8							
31500	4.2	12.6	19.3	29.9	28.8	31.5	31.1	28.9	20.6								
40000			1.7	7.4	11.8	13.6	13.1	8.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.5	67.1	68.3	72.4	74.3	76.8	77.9	78.1	76.3	70.9	66.8						
PNDB	77.3	80.8	83.3	87.8	88.9	91.2	92.2	92.7	90.8	84.3	78.9						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-SS
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 66/4
TAPE
BAR 29.9 HG (00867. N/M2)
TAMB 40. DEG F (278. DEG K)
THET 38. DEG F (275. DEG K)
HACT 4.45 GM/M3 (.00445 KG/M3)
NFA 7773. RPM (814. RAD/SEC)
NFK 7919. RPM (829. RAD/SEC)
NFB 8023. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 679. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 HR. 15.2

MODEL SOUND PRESSURE LEVELS (59. DEG, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	8.)10.	8.)10.	8.)10.	8.)10.	8.)10.	PWL 1
50																		
63																		
80																		
100	68.5	71.6	72.6	72.4	74.1	74.4	74.4	75.2	79.2	83.6	87.6							112.6
125	74.8	77.4	77.1	76.7	78.6	77.2	78.6	79.9	81.8	83.8	87.4							114.2
160	74.3	75.4	75.9	75.9	75.9	76.7	78.9	80.2	82.2	85.1	86.9							114.3
200	73.3	73.4	74.1	75.2	77.1	79.9	79.6	81.4	83.2	84.1	86.3							115.3
250	78.0	77.9	79.6	79.6	80.4	81.9	82.6	84.1	85.7	86.8	88.3							117.2
315	76.3	78.9	79.4	79.4	80.1	80.7	81.6	82.1	83.2	85.8	86.8							116.8
400	77.1	77.1	77.4	77.9	78.4	79.7	80.4	81.4	83.8	84.8	86.1							115.8
500	74.3	74.4	75.4	76.4	77.6	79.2	80.4	81.4	82.7	84.3	84.8							114.3
630	76.4	76.1	77.9	78.9	80.2	82.2	83.4	83.9	84.5	86.1	84.6							116.2
800	77.1	77.1	78.1	79.2	80.6	82.7	83.8	84.8	85.2	86.3	84.1							116.8
1000	75.1	76.4	77.4	79.2	81.4	83.2	84.1	84.9	85.5	85.1	83.1							116.7
1250	74.9	75.7	77.1	79.8	80.9	83.8	84.1	81.6	85.5	84.9	82.6							116.5
1600	74.4	74.7	76.1	77.8	79.5	81.2	82.3	83.6	84.5	83.1	80.9							115.2
2000	77.9	79.2	80.4	82.3	83.5	84.8	85.6	86.6	86.7	87.1	84.1							119.8
2500	76.4	78.8	79.1	81.1	83.8	86.8	87.1	89.8	91.2	86.2	82.1							120.4
3150	77.2	79.8	81.1	85.4	87.6	90.3	92.3	92.1	93.7	88.4								123.5
4000	81.1	84.5	86.3	89.6	91.8	94.2	96.2	97.5	97.9	92.8	87.5							127.9
5000	78.3	79.9	83.8	87.1	89.5	92.4	94.7	95.8	94.9	89.8	84.5							125.4
6300	77.2	80.8	82.8	86.8	89.4	92.2	93.7	95.3	94.9	88.8	83.6							125.4
8000	78.6	77.7	80.5	84.5	87.1	91.1	93.2	94.8	94.8	88.2	82.7							124.8
10000	75.6	77.8	81.3	85.3	89.4	91.5	94.3	95.5	94.4	88.8	84.1							125.8
12500	76.6	78.5	79.7	83.7	86.6	91.1	92.4	93.1	94.4	88.7	82.6							124.9
16000	71.9	74.3	77.1	81.1	84.9	87.8	90.5	93.7	92.4	86.7	81.8							123.3
20000	71.7	73.9	77.1	81.8	86.1	88.2	90.9	94.8	93.6	87.8	81.8							124.4
25000	70.9	73.3	76.1	80.2	84.4	86.9	90.2	92.7	92.8	86.9	80.2							124.8
31500	70.5	73.5	76.4	80.8	82.8	86.8	89.4	91.5	91.1	86.8	78.8							123.8
40000	68.3	72.4	73.8	77.8	80.5	84.8	86.6	88.4	88.4	83.1	73.5							122.3
50000	67.8	67.4	71.1	73.4	80.5	80.1	83.3	83.5	83.1	79.9	68.8							120.2
63000	68.7	65.9	68.2	69.1	79.1	73.8	76.5	75.8	76.2	73.7	66.1							117.4
80000	71.4	68.9	70.8	67.2	73.7	69.1	69.8	68.7	68.8	67.9	66.2							116.9
OVERALL MEASURED																		
OVERALL CALCULATED	98.3	91.9	93.7	96.9	99.4	102.8	104.8	105.8	105.8	101.4	92.8							120.8
PWLB	103.5	105.7	107.8	110.8	112.6	114.9	116.6	117.9	118.4	114.4	110.9							

CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 66/5
TAPE
BAR 29.9 IN HG
(99867. N/M2)
TAMB 48. DEG F
(278. DEG K)
TWET 36. DEG F
(275. DEG K)
WACT 6.45 GM/M3
(.00645 KG/M3)
NFA 7772. RPM
(814. RAD/SEC)
NFK 7918. RPM
(829. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
670. FT/SEC

RADIAL 17. FT.
(5. M)
VEHICLE R-SS

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 NO. 16.2

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DATA)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
80																	
100	44.9	48.9	50.6	50.7	52.5	52.7	52.2	52.1	54.6	57.8	57.5						
125	51.8	54.6	55.8	54.9	55.8	55.3	56.3	56.6	56.4	57.2	57.1						
160	50.4	52.5	53.7	54.1	54.1	54.8	56.5	56.9	57.6	58.3	58.4						
200	49.3	50.4	51.6	53.2	55.3	57.9	57.2	56.1	56.5	59.1	57.7						
250	54.8	54.8	57.2	57.6	58.5	59.8	60.1	60.7	60.8	59.7	57.8						
315	54.1	55.7	56.9	57.3	58.2	58.5	58.8	58.6	58.2	58.6	55.7						
400	52.8	53.9	54.8	55.7	56.3	57.4	57.6	57.8	57.9	57.4	54.8						
500	49.9	51.8	52.7	54.2	55.5	56.9	57.5	57.7	57.5	56.8	53.8						
630	51.8	52.7	53.1	54.6	57.9	59.8	60.4	60.8	59.1	57.3	52.8						
800	52.4	53.5	55.2	56.7	58.3	60.2	60.5	60.7	59.7	57.4	52.8						
1000	54.3	53.8	54.3	54.6	56.9	60.6	60.9	60.8	59.8	56.9	50.6						
1250	49.8	51.7	54.8	56.3	58.3	60.2	60.8	60.3	58.8	56.4	49.8						
1600	49.2	50.6	52.8	54.9	56.7	58.3	58.8	58.1	56.4	54.4	47.6						
2000	52.5	54.9	56.8	59.2	60.5	61.6	61.9	63.9	64.4	58.1	50.4						
2500	50.8	53.5	55.4	59.9	61.9	62.7	63.2	64.7	64.6	58.8	47.9						
3150	51.2	54.2	57.1	61.9	64.4	64.7	66.1	66.8	64.7	58.6	49.2						
4000	54.8	58.2	61.9	65.7	67.9	70.2	71.6	71.8	70.3	62.8	51.5						
5000	51.8	54.4	58.3	62.9	66.4	68.2	69.8	68.9	67.8	58.8	47.8						
6300	49.4	53.6	58.5	61.8	64.8	67.2	68.8	68.4	66.8	56.3	48.1						
8000	46.4	50.1	53.9	58.5	61.2	63.8	64.4	64.3	63.6	54.8	41.4						
10000	44.6	48.5	53.1	57.8	62.1	63.9	65.8	65.8	61.8	52.1	38.8						
12500	48.7	44.7	48.2	53.9	57.8	61.3	61.6	62.6	58.7	47.8	31.6						
16000	33.4	38.3	42.8	47.7	52.9	54.3	56.8	56.8	51.7	38.5	28.6						
20000	27.1	32.4	37.7	42.8	48.3	49.8	51.1	51.5	46.2	31.3	8.3						
25000	17.6	24.1	28.6	36.1	39.7	41.7	43.1	42.1	36.8	19.1							
31500	4.4	12.9	19.3	24.9	28.1	31.3	31.6	28.9	20.4	0.4							
40000			1.8	7.7	11.2	13.6	12.8	8.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.5	66.9	69.2	73.3	74.5	76.7	77.6	77.6	76.5	71.6	66.7						
PNDB	77.3	80.7	83.2	86.2	86.9	88.9	89.1	89.2	87.6	84.3	78.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 NO. 15.2

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. RI) 100	72.7	74.9	78.7	81.8	88.5	88.1	76.8	70.5	71.2	75.8	77.2							111.9
VEHICLE R-55 125	65.5	68.2	71.7	69.2	78.3	68.6	68.3	72.2	72.5	72.3	75.2							104.9
CONFIG 75-1E 160	65.8	68.4	68.4	66.7	68.8	67.1	68.8	76.8	72.2	73.8	75.4							103.8
LOC SCHENECTADY 200	64.2	64.7	65.1	66.2	67.5	69.9	70.3	72.2	72.9	73.5	76.9							105.1
DATE 1/27/75 250	66.9	67.7	68.6	69.2	69.3	78.1	71.3	71.7	72.7	74.8	75.4							105.1
RUN 6676 315	69.8	70.4	70.1	70.2	70.8	71.6	71.8	71.7	72.7	74.5	74.4							105.7
TAPE 400	66.5	67.7	67.6	68.2	68.8	70.4	70.8	71.7	72.2	73.5	74.1							104.6
BAR 29.9 MG 500	65.8	65.9	66.9	67.7	68.8	70.7	71.5	72.7	73.4	74.8	73.7							104.9
(98867. N/M2) 630	67.6	68.4	70.2	71.7	72.3	74.2	75.3	76.5	76.5	76.8	74.9							108.1
TAMB 48. DEG F 800	68.3	69.4	70.4	71.7	72.8	75.2	75.8	77.5	77.7	77.5	74.2							108.8
(278. DEG K) 1000	67.1	68.4	69.4	71.7	73.3	75.9	78.7	78.2	79.2	79.3	73.4							109.7
TWET 36. DEG F 1250	72.6	71.5	73.6	77.3	78.1	81.8	81.5	83.5	84.8	83.5	77.4							114.8
(275. DEG K) 1600	68.1	68.8	69.6	72.1	73.1	74.2	77.5	78.7	78.2	78.6	73.4							109.7
HACT 4.45 GM/M3 2000	64.6	65.5	66.9	68.4	69.7	71.2	72.7	75.2	77.7	77.6	72.7							107.1
(.00445 KG/M3) 2500	72.1	72.5	74.9	76.7	78.9	81.5	83.7	87.8	89.5	86.1	80.1							117.6
NFA 5447. RPM 3150	78.1	71.8	73.4	76.5	79.5	82.3	83.7	85.2	84.2	84.8	78.4							116.2
(570. RAD/SEC) 4000	71.1	73.8	74.8	77.9	81.7	84.2	85.6	87.4	87.4	85.3	78.8							117.5
NFR 5550. RPM 5000	69.3	70.8	72.5	75.4	79.2	82.4	84.8	86.3	86.1	84.5	77.8							116.5
(581. RAD/SEC) 6300	68.6	68.6	70.5	73.6	76.3	80.4	83.1	84.4	84.4	81.8	75.8							114.8
NFB 6823. RPM 8000	64.8	67.2	69.8	72.8	75.5	78.6	81.4	83.1	84.8	81.4	74.5							113.7
(824. RAD/SEC) 10000	64.6	66.8	68.8	73.4	75.8	79.8	81.7	83.8	84.8	81.2	74.9							114.2
NO. OF BLADES 16 12500	64.3	65.6	67.8	71.2	74.7	77.1	80.8	83.2	84.3	80.8	73.8							113.8
FAN TIP SPEED 16000	62.1	63.8	64.9	68.9	72.8	76.1	77.9	81.8	82.8	77.7	72.3							112.8
470. FT/SEC 20000	60.9	62.9	64.6	69.3	72.3	74.7	77.6	80.9	82.5	77.7	71.8							112.1
25000	60.6	62.1	63.4	68.3	71.8	73.4	76.6	78.6	80.3	76.1	69.8							110.9
31500	59.4	61.3	62.7	68.1	71.1	73.4	75.6	78.8	79.6	75.7	67.8							111.4
40000	58.9	59.2	60.8	65.1	67.2	70.5	73.2	75.8	76.3	73.5	62.8							109.7
50000	58.8	58.9	60.6	61.7	63.8	66.6	68.5	70.1	71.3	69.1	59.1							107.2
63000	58.2	58.2	60.5	58.9	59.8	61.8	63.2	63.4	64.5	64.4	56.8							104.7
80000	62.5	60.8	60.3	58.5	58.7	59.3	59.3	58.1	58.6	58.3	54.3							100.4
OVERALL MEASURED																		
OVERALL CALCULATED	82.1	83.3	85.3	87.8	89.7	92.1	93.8	96.8	96.7	94.8	88.8							120.9
PNOY	94.6	95.9	97.7	100.3	103.0	105.8	107.8	108.7	108.6	107.5	102.4							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 27 HR. 18.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-1E
LOC SCHENECTADY
DATE 1/27/75
RUN 66/6
TAPE
BAR 29.9 HG (00867. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 36. DEG F (275. DEG K)
HACT 4.45 GM/M3 (.00445 KG/M3)
NFA 5447. RPM (570. RAD/SEC)
NFK 5550. RPM (581. RAD/SEC)
NFD 6623. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 476. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.0	52.2	56.6	59.3	59.0	58.4	54.6	47.4	46.8	48.5	47.1						
125	41.7	45.4	49.5	47.4	46.6	46.8	46.0	49.1	47.9	45.6	44.9						
160	41.1	43.5	44.2	44.9	45.1	45.3	46.4	46.8	47.6	46.9	44.9						
200	40.3	41.7	42.8	44.3	45.7	47.9	47.8	48.9	48.2	48.5	46.2						
250	42.9	44.6	46.2	47.2	47.4	48.1	48.7	48.3	47.8	46.9	44.5						
315	44.8	47.3	47.6	48.1	48.8	49.5	48.4	48.2	47.7	47.3	43.3						
400	42.2	44.4	45.1	46.0	46.7	48.2	48.0	48.1	47.1	46.1	42.8						
500	40.6	42.8	44.2	45.5	46.7	48.4	48.7	49.0	48.2	46.4	42.1						
630	43.0	45.0	47.4	49.4	50.1	51.8	52.3	52.6	51.1	49.0	43.1						
800	43.6	45.8	47.5	49.3	50.2	52.7	52.7	53.5	52.2	49.8	42.0						
1000	42.2	44.7	46.4	49.1	50.8	53.3	53.6	54.1	53.5	51.1	40.9						
1250	47.6	47.5	50.5	54.6	55.5	58.2	58.2	59.2	58.1	55.1	44.6						
1600	42.9	43.9	46.3	49.2	50.4	53.3	54.0	54.2	52.1	49.8	40.1						
2000	39.2	41.2	43.4	45.3	46.7	48.1	49.0	50.5	51.3	48.5	38.9						
2500	46.4	48.0	51.2	53.4	55.8	58.2	59.8	62.0	62.9	56.7	46.0						
3150	44.1	47.0	49.6	52.9	56.1	58.7	59.5	59.9	59.2	55.0	43.5						
4000	44.5	47.7	50.4	54.0	57.9	60.2	61.0	61.6	59.8	54.7	42.8						
5000	42.4	44.4	47.8	51.2	55.1	58.2	59.9	60.3	58.2	53.5	40.4						
6300	38.8	42.2	45.0	48.6	51.5	55.4	57.4	57.5	55.5	48.7	37.2						
8000	35.6	39.6	42.4	46.8	49.6	52.5	54.6	54.9	53.6	47.2	33.2						
10000	33.5	37.5	40.7	45.8	48.2	51.3	53.2	53.6	52.3	44.3	29.7						
12500	30.4	33.7	36.4	41.4	45.2	47.3	49.2	50.0	48.7	39.8	22.7						
16000	23.6	27.6	30.5	35.5	38.8	41.5	43.2	44.6	42.2	30.4	11.9						
20000	16.3	21.5	25.2	31.1	34.4	36.4	37.8	38.3	35.2	21.0							
25000	7.3	12.9	18.8	25.4	28.4	28.2	29.5	27.9	23.4	8.2							
31500		0.7	6.5	12.9	16.5	18.0	17.8	16.0	8.9								
40000						0.1											
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.7	59.0	61.0	64.4	66.1	68.1	68.8	69.4	68.5	64.3	56.4						
PNDB	68.3	70.7	73.3	76.4	79.3	81.6	82.8	83.1	82.6	77.7	67.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 26 YR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	72. (1.26)	84. (1.47)	96. (1.68)	108. (1.88)	120. (2.09)	132. (2.30)	144. (2.51)	156. (2.72)	168. (2.93)	180. (3.14)	0.	0.	0.	0.	0.	0.	PWL
	50																	
	63																	
RADIAL 17. FT.	80																	
(5. MI	100	73.7	74.4	77.7	76.5	73.5	78.1	74.8	68.5	72.2	74.3	76.9						110.5
VEHICLE SPDS	125	69.2	69.7	71.2	69.7	70.1	67.1	67.8	71.5	72.4	72.9	74.9						104.8
CONFIG 75-1F	160	64.7	65.2	65.7	64.2	66.1	65.7	69.0	70.3	72.8	73.5	75.7						103.6
LOC SCHENECTADY	200	63.5	64.2	64.9	64.5	67.3	69.6	69.8	71.7	72.7	74.5	76.4						104.4
DATE 1/17/75	250	67.0	67.7	68.1	69.2	67.5	70.1	71.3	71.7	72.4	74.3	75.4						109.8
RUN 5901	315	69.2	71.2	70.2	71.5	71.1	71.9	71.8	72.5	73.2	73.8	74.9						108.8
TAPE	400	67.3	68.7	68.4	70.3	70.1	73.2	71.8	72.3	73.8	73.8	74.4						105.3
BAR 30.2 IN	500	66.7	67.5	67.7	68.8	69.3	70.7	72.0	72.8	73.5	74.3	74.4						103.3
(102.3 K-N/M2)	630	73.1	73.5	72.2	73.9	73.6	75.2	76.8	77.0	76.5	76.3	74.9						108.9
TAMB 34. DEG F	800	72.1	72.7	73.7	72.5	73.2	74.5	75.8	76.8	77.2	77.9	74.9						106.7
(274. DEG K)	1000	68.9	69.5	69.7	72.5	73.9	74.0	77.8	80.0	80.5	80.5	75.4						110.8
T-FT 26. DEG F	1250	77.6	77.3	75.4	81.3	83.4	85.8	86.5	87.3	86.7	86.6	81.4						110.7
(269. DEG K)	1500	73.9	74.3	74.9	79.1	80.4	83.3	84.8	84.8	84.0	83.9	77.9						115.8
HUCT 0.55 GM/M3	2000	73.5	74.5	76.4	80.2	81.2	83.5	84.5	84.5	84.2	83.3	78.4						116.1
(.00053 KG/M3)	2500	73.4	76.5	78.6	81.4	84.2	87.1	89.2	89.7	91.7	89.6	83.7						121.1
NFA 5387. RPM	3150	72.6	74.3	75.6	79.4	82.9	85.7	87.2	87.4	87.7	87.1	80.9						118.7
(564. RAD/SEC)	4000	72.7	73.9	74.0	80.4	83.1	85.6	88.3	89.5	89.8	87.5	81.0						119.9
NFK 5522. RPM	5000	73.7	71.6	74.2	79.3	82.0	85.1	86.7	87.7	87.8	85.7	79.9						118.3
(578. RAD/SEC)	6300	63.9	73.8	72.8	77.5	81.3	83.2	85.7	86.7	87.2	85.3	78.2						117.4
NFD 8823. RPM	8000	65.9	68.9	73.9	74.9	79.2	82.3	84.1	85.3	85.5	84.1	76.9						118.0
(924. RAD/SEC)	10000	65.3	67.8	70.3	75.9	79.1	81.5	84.0	85.9	87.9	83.8	77.2						116.6
NO. OF BLADES 16	12500	63.3	65.3	68.5	73.5	77.5	79.9	82.6	84.8	85.4	82.7	76.5						114.4
FAN TIP SPEED	16000	62.2	63.9	65.8	70.4	74.2	77.3	80.9	83.0	84.2	80.2	73.8						113.8
470. FT/SEC	20000	61.3	61.8	63.8	69.1	73.1	75.3	78.8	81.5	82.5	79.4	72.6						113.8
	25000	59.8	60.4	61.4	67.1	72.2	73.4	76.6	79.1	80.4	77.2	70.1						111.8
	31500	57.3	58.3	59.7	65.6	68.2	72.6	75.1	77.6	79.3	74.9	67.6						110.5
	40000	53.4	55.3	57.7	61.6	63.8	67.9	72.2	73.3	75.5	71.7	61.6						108.1
	50000	50.6	54.7	57.0	58.4	60.5	64.3	68.0	67.9	70.0	67.3	57.1						102.2
	63000	55.4	53.2	56.3	55.5	55.6	58.5	60.7	60.7	61.7	60.7	54.0						101.4
	80000	57.4	56.7	55.3	54.9	54.2	54.8	55.3	55.0	55.5	54.7	52.7						102.1
OVERALL MEASURED																		
OVERALL CALCULATED		84.6	85.5	87.0	90.5	92.3	95.2	97.1	98.1	98.7	97.2	91.7						120.2
	PWL	97.3	98.4	100.1	103.3	105.7	108.3	110.0	111.0	111.8	110.3	105.1						

FULL SCALE DATA [illegible] PROGRAM

FULL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

PROG. DATE - MONTH 3 DAY 26 HR. 14.7

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	33. (.58)	52. (1.04)	71. (1.24)	91. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.1	51.7	55.4	57.8	58.0	58.4	51.8	45.4	47.8	47.7	46.9						
125	44.5	49.9	49.0	47.0	46.7	45.3	45.5	48.4	47.9	45.3	44.7						
160	43.9	42.3	43.4	44.4	44.5	44.8	46.7	47.0	47.3	46.7	45.2						
200	39.3	41.2	42.6	44.5	45.5	46.7	47.3	48.4	48.0	47.6	45.7						
250	42.9	44.6	45.9	47.2	47.7	48.1	48.7	48.3	47.6	46.9	44.5						
315	45.1	47.0	47.7	49.4	49.1	49.8	49.2	49.0	48.2	46.5	43.8						
400	43.0	45.4	45.4	48.1	49.0	48.7	49.1	48.6	47.9	46.4	43.1						
500	41.9	44.1	45.0	46.5	47.2	48.4	49.2	49.0	48.3	46.7	42.9						
630	45.5	47.0	49.4	50.9	51.4	52.8	53.9	53.2	51.1	48.6	43.1						
800	45.4	47.1	47.9	50.1	50.5	52.0	52.7	52.8	51.7	49.8	42.8						
1000	41.0	45.7	46.7	49.9	51.4	53.3	54.6	55.9	54.8	52.4	43.0						
1250	52.6	53.1	53.3	56.4	60.5	63.0	63.2	63.0	60.9	60.2	48.6						
1600	43.7	49.9	51.6	54.2	57.7	60.1	60.8	60.3	57.9	55.1	44.7						
2000	48.0	51.2	52.9	57.1	58.2	62.4	62.8	59.8	57.9	56.3	44.7						
2500	49.9	52.5	54.9	58.7	61.1	63.9	65.3	64.8	65.1	60.2	49.5						
3150	46.6	49.4	51.6	56.9	59.5	62.1	63.0	62.1	60.7	57.2	45.9						
4000	46.2	48.6	51.5	56.4	57.3	61.6	63.7	63.8	62.3	56.9	45.0						
5000	43.8	46.3	49.4	54.1	56.0	60.8	61.8	61.7	59.8	56.6	42.3						
6300	41.1	44.5	47.3	52.7	55.6	58.3	60.0	59.8	58.3	53.0	39.7						
8000	37.8	41.3	44.4	50.0	53.3	56.2	57.3	57.1	55.0	49.9	35.6						
10000	35.2	39.5	42.1	48.3	51.7	53.9	55.5	55.9	54.7	46.9	32.0						
12500	31.4	34.4	37.9	43.7	46.0	50.1	51.8	52.2	49.8	41.9	29.8						
16000	23.7	27.9	31.4	37.1	41.2	43.8	46.2	46.1	43.5	33.0	13.5						
20000	16.4	20.4	24.4	31.1	35.2	38.9	39.1	39.0	36.2	23.7							
25000	5.7	11.2	14.9	22.9	25.5	28.1	29.5	28.4	23.5	9.4							
31500			2.5	10.5	13.8	17.2	17.3	15.1	8.5								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.2	61.2	63.4	67.0	69.2	71.4	72.4	72.0	70.8	67.1	57.9						
PNDB	71.3	73.6	76.1	79.8	82.3	84.7	85.9	85.5	84.8	80.6	70.4						

SIZE, TYPE 200. FT. (60.96 M)
VEHICLE P-55
CONFIG 75-1F
LOC SCHENECTADY
DATE 1/17/75
RUN 59/1
TAPE
BAP 30.2 HG (81890. N/M2)
TAMB 34. DEG F (274. DEG K)
TDET 24. DEG F (269. DEG K)
HACT 0.53 GM/M3 (0.0053 KG/M3)
NFA 5367. RPM (564. RAD/SEC)
NPK 5522. RPM (578. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 476. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 26 HR. 14.8

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	76.3	75.4	74.1	74.2	75.1	71.2	68.9	68.7	72.2	76.3	80.4							108.8
VEHICLE R-55	125	69.9	71.6	71.9	71.4	71.6	70.2	70.9	73.7	74.7	76.8	79.4							107.4
CONFIG 75-1F	160	68.0	68.9	68.6	69.7	69.4	69.7	72.4	73.9	75.0	78.1	79.6							107.3
LOC SCHENECTADY	200	69.0	69.1	69.1	70.7	72.6	73.1	73.9	75.9	77.0	79.3	80.8							108.7
DATE 1/17/75	250	70.3	71.1	71.9	72.4	73.1	73.1	74.5	75.4	76.2	78.1	79.1							106.6
RUN 59/2	315	70.8	73.4	73.4	74.4	74.1	74.7	75.6	75.7	76.5	77.8	79.1							109.4
TAPE	400	70.3	70.9	71.2	73.2	73.1	73.9	74.6	75.9	76.2	77.6	78.1							106.6
BAR 30.2 HG	500	69.9	70.4	70.9	72.5	72.7	74.0	75.4	76.4	76.5	77.9	77.6							106.6
(101490. N/M2)	630	73.2	73.2	74.7	75.5	75.7	77.2	78.9	79.4	79.5	79.6	77.9							111.5
TAMB 33. DEG F	800	73.4	73.7	73.9	75.0	75.2	77.0	78.4	79.4	79.8	80.4	77.7							111.4
(274. DEG K)	1000	71.5	72.4	72.9	75.0	76.7	78.3	80.9	81.4	82.8	82.4	77.7							113.1
TMET 24. DEG F	1250	73.7	74.2	75.7	78.6	80.8	82.5	83.9	85.0	84.8	85.2	79.4							116.1
(269. DEG K)	1600	80.3	80.8	83.0	85.2	87.6	89.1	90.7	91.0	90.8	91.2	84.4							122.5
HACT 0.83 GM/MT	2000	77.0	77.3	79.7	82.7	85.1	86.6	87.9	87.5	87.1	85.7	80.7							119.1
(.00083 KG/M3)	2500	75.5	75.9	79.7	82.7	85.6	88.1	89.1	88.2	89.1	86.2	80.9							120.2
NFA 6151. RPM	3150	79.0	79.5	81.2	85.2	88.3	90.8	92.6	92.4	94.5	92.4	86.4							124.2
(644. RAD/SEC)	4000	75.6	77.5	79.5	83.6	86.3	88.7	90.7	91.3	91.2	87.9	82.5							121.9
NFK 6311. RPM	5000	75.1	76.6	79.2	83.6	87.0	88.9	90.9	91.2	91.6	88.1	82.2							122.1
(661. RAD/SEC)	6300	73.3	75.6	77.6	81.9	85.3	87.3	89.8	90.9	90.5	86.7	81.2							121.1
NFD 8823. RPM	8000	71.1	73.9	75.8	80.5	83.8	86.1	88.8	89.6	89.6	86.0	80.0							120.1
(924. RAD/SEC)	10000	70.2	73.1	75.2	80.3	83.8	86.1	88.4	89.9	91.0	86.2	81.0							120.6
NO. OF BLADES 15	12500	70.0	71.1	74.3	79.5	83.2	84.0	87.0	89.3	89.6	84.9	79.8							119.8
FAN TIP SPEED	16000	66.4	69.2	70.4	75.6	79.1	81.4	84.3	86.8	87.3	82.9	77.5							117.4
537. FT/SEC	20000	66.0	66.9	69.7	74.9	78.1	80.9	83.9	86.1	88.4	82.8	76.9							117.7
	25000	64.5	65.5	67.1	72.7	75.9	78.6	82.3	83.9	85.2	80.4	74.5							116.0
	31500	62.6	63.6	65.6	71.0	74.2	77.5	80.1	82.4	82.9	79.1	71.4							115.0
	40000	61.2	61.6	63.6	67.5	70.0	73.3	77.0	78.4	79.4	75.4	66.2							112.7
	50000	61.9	61.1	63.2	63.8	66.0	69.0	72.8	72.7	74.2	71.1	62.7							109.8
	63000	63.1	61.1	63.5	62.3	63.1	64.7	66.5	66.3	66.9	65.2	60.8							107.4
	80000	66.7	63.6	65.3	62.9	63.0	63.7	64.1	63.4	62.2	62.7	61.6							110.7
OVERALL MEASURED																			
OVERALL CALCULATED		87.9	88.8	90.5	93.9	96.5	96.8	100.5	101.2	101.8	99.3	94.6							132.5
	PNLB	100.8	102.1	103.7	107.2	109.9	111.9	113.7	113.9	115.1	113.2	108.2							

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 26 HR. 14.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	51. (0.92)	64. (1.05)	78. (1.24)	91. (1.41)	104. (1.59)	118. (1.76)	131. (1.94)	144. (2.13)	157. (2.32)	170. (2.52)	183. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	52.6	52.7	52.1	54.5	53.5	49.4	46.7	45.6	47.8	49.8	50.3						
125	46.0	48.8	49.7	49.7	50.1	47.3	48.6	50.5	50.2	50.2	49.1						
160	44.2	46.0	46.4	47.9	47.7	47.8	50.0	50.7	50.3	51.3	49.1						
200	44.1	45.1	46.5	47.7	48.5	51.2	51.4	52.6	52.2	52.4	50.2						
250	46.2	48.1	49.5	50.4	51.2	51.1	52.1	52.0	51.4	51.0	48.2						
315	48.4	50.2	50.9	52.3	52.2	52.5	53.0	52.1	51.5	50.5	48.0						
400	46.1	47.6	48.6	51.0	51.1	51.7	51.9	52.3	51.1	50.2	46.8						
500	45.5	47.0	48.2	50.2	50.5	51.6	52.4	52.7	51.3	50.3	46.1						
630	48.6	49.7	51.9	53.1	54.5	54.8	56.0	55.6	54.1	51.9	48.1						
800	49.8	50.1	51.9	52.5	53.6	54.5	55.3	55.5	54.2	52.4	48.5						
1000	46.6	48.7	49.9	52.4	54.2	55.6	57.7	57.3	57.1	54.2	49.2						
1250	48.7	50.3	52.5	55.8	58.2	59.8	60.6	60.7	59.9	56.8	48.6						
1600	55.0	56.7	59.6	63.0	64.8	66.1	67.2	66.5	64.7	62.5	51.2						
2000	51.6	53.5	56.2	59.6	62.1	63.4	64.9	62.7	60.7	54.7	48.9						
2500	49.8	53.5	56.0	59.4	62.5	64.8	65.2	63.3	62.4	56.9	48.7						
3150	52.2	54.7	57.1	61.6	64.2	67.2	68.4	67.1	67.5	62.6	51.5						
4000	49.1	52.2	55.4	58.7	62.4	64.7	66.1	65.5	63.6	57.3	48.5						
5000	48.2	51.1	54.5	58.4	62.9	64.6	66.8	65.1	63.7	57.0	45.6						
6300	46.0	49.3	52.2	57.0	60.5	62.4	64.2	64.1	61.6	54.4	42.8						
8000	41.9	46.3	49.2	54.5	59.0	60.1	62.0	61.4	59.1	51.8	38.7						
10000	39.1	43.8	47.0	53.4	56.4	58.5	60.0	60.0	58.5	49.3	35.8						
12500	34.1	39.2	43.8	49.9	53.7	54.2	56.3	56.7	54.0	44.1	28.6						
16000	27.9	32.2	36.0	42.2	46.0	47.9	49.6	49.9	46.6	38.6	17.1						
20000	21.4	25.5	30.3	36.7	40.2	42.6	44.1	43.5	41.0	27.1	4.1						
25000	11.2	18.3	23.5	27.6	31.2	33.5	35.2	33.2	28.4	12.6							
31500		3.0	8.5	15.8	19.6	22.1	22.3	19.9	12.2								
40000					0.7	2.9	3.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.3	64.2	66.5	70.3	72.6	74.3	75.5	74.7	73.5	69.1	60.9						
PNDB	74.7	77.2	79.6	83.6	86.4	88.3	89.4	88.5	87.9	83.3	73.3						

SITE LINE 230. FT. (60.96 M)

VEHICLE B-55

CONFIG 75-1F

LOC SCHENECTADY

DATE 1/17/75

RUN 59/2

TAPE

BAR 30.2 HG (1018.90. MB)

TAMB 33. DEG F (274. DEG K)

TWET 24. DEG F (269. DEG K)

HACT 0.83 GM/M3 (0.00083 KG/M3)

NFA 6151. RPM (644. RAD/SEC)

NFK 6311. RPM (661. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 537. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 26 HR. 14.8

MODEL 31.00 PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.1	74.4	74.9	77.2	73.1	77.7	79.1	72.4	76.2	80.3	84.1							110.1
VEHICLE RUNS	125	73.0	79.9	79.6	77.7	78.9	75.2	74.6	76.9	78.2	80.6	83.1							112.3
CONFIG 75-1F	160	71.3	71.4	71.6	72.7	72.4	73.4	75.9	76.9	78.7	81.8	83.4							110.7
LOC SCHENECTADY	200	70.3	70.4	71.1	72.9	74.1	75.9	78.4	78.7	80.0	82.6	84.8							111.9
DATE 1/17/75	250	74.3	74.4	74.9	76.4	76.4	76.9	78.4	78.6	80.2	82.1	83.6							112.4
RUN 59/3	315	75.6	76.4	76.6	77.7	77.6	77.7	78.4	79.2	80.2	81.8	83.1							112.8
TAPE	400	74.1	74.4	74.7	75.7	75.9	76.2	77.4	78.4	79.5	81.6	81.9							111.7
BAR 30.2 HG	500	72.6	72.4	73.4	74.5	75.2	76.2	77.6	78.9	79.7	81.1	81.1							111.4
(81690. N/M2)	630	75.4	75.7	76.0	76.2	79.2	79.7	81.4	82.4	82.8	82.4	81.4							114.2
TAMB 32. DEG F	800	75.7	76.4	76.4	77.7	78.9	79.5	81.1	81.7	82.5	82.9	80.9							114.8
(273. DEG K)	1000	73.9	74.9	75.2	76.5	79.2	81.0	82.9	83.9	84.8	84.4	80.7							115.3
TJET 23. DEG F	1250	75.5	75.7	77.2	79.6	81.7	83.5	85.6	85.7	86.3	85.2	81.2							117.2
(268. DEG K)	1600	81.0	81.5	82.4	86.1	89.5	92.3	93.6	93.0	92.8	91.4	85.2							124.4
HACT 0.69 GM/M3	2000	80.2	81.5	83.2	86.6	89.8	91.1	92.1	92.2	92.0	89.4	84.9							123.5
(.00069 KG/M3)	2500	79.5	80.3	81.9	85.7	89.3	91.1	91.6	90.6	91.0	87.2	83.1							122.7
NFA 6920. RPM	3150	79.4	81.7	83.4	87.0	91.0	92.8	94.5	94.1	93.2	90.9	86.3							125.8
(725. RAD/SEC)	4000	79.3	80.9	83.5	88.1	91.2	92.9	94.7	95.0	94.9	90.6	86.2							125.8
NFK 7107. RPM	5000	79.5	80.4	82.9	87.5	90.7	92.1	94.3	95.4	94.8	90.8	84.6							125.6
(744. RAD/SEC)	6300	76.8	78.6	81.1	86.1	89.5	91.0	93.5	93.9	94.5	89.2	83.7							124.7
NFD 8823. RPM	8000	74.8	77.6	79.5	85.2	88.3	90.8	92.7	93.3	94.0	88.5	83.2							124.1
(924. RAD/SEC)	10000	73.7	76.3	79.6	85.4	87.7	90.8	92.3	93.6	94.0	88.1	83.2							124.2
NO. OF BLADES 19	12500	73.2	75.1	77.8	84.2	86.9	88.7	91.2	92.5	93.3	87.8	82.5							123.3
FAN TIP SPEED	16000	69.8	71.7	75.1	80.3	83.8	86.6	89.3	91.7	91.3	86.8	80.7							121.8
604. FT/SEC	20000	68.9	70.6	73.9	79.9	83.0	85.1	89.1	91.0	91.4	86.0	79.6							121.9
	25000	67.2	68.9	71.5	78.1	81.1	83.2	86.5	89.1	89.9	84.4	77.9							120.6
	31500	65.7	67.8	70.0	76.4	78.9	82.4	85.0	86.9	88.1	82.8	75.6							119.8
	40000	62.9	63.5	67.0	72.1	74.7	78.2	81.9	83.6	83.6	79.6	69.3							117.3
	50000	62.1	61.5	64.6	67.2	70.7	73.9	77.4	77.2	78.1	76.0	64.9							116.0
	63000	63.0	60.5	63.1	63.2	64.5	67.6	69.9	69.2	70.4	68.1	61.0							109.9
	80000	66.5	63.5	65.2	62.8	62.9	63.6	64.3	63.8	63.8	63.3	61.5							110.8
OVERALL MEASURED																			
OVERALL CALCULATED		99.0	91.6	93.2	97.3	100.1	102.1	104.0	104.5	104.9	101.1	97.3							115.7
	PNLM	102.9	104.7	106.4	110.3	113.0	114.8	116.4	116.7	117.1	113.8	109.9							

FULL SCALE DATA [illegible] PROGRAM

PWLG, DATE = MONTH 3 DAY 26 HR. 14.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.93)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	43.4	51.7	52.8	51.5	51.5	50.9	49.9	49.3	51.6	53.8	54.1						
125	47.3	57.1	57.5	56.2	55.2	53.3	52.3	53.8	53.7	53.9	52.9						
160	47.2	49.5	49.4	50.8	50.7	51.5	53.5	53.7	54.1	54.8	52.9						
200	46.3	47.4	48.4	51.0	52.3	53.9	54.2	55.3	55.2	55.6	54.2						
250	50.2	51.3	52.5	54.4	54.3	54.2	55.5	55.2	55.4	55.0	52.7						
315	51.4	53.2	54.2	55.5	55.7	55.5	55.7	55.6	55.3	54.6	52.0						
400	49.8	51.1	52.1	53.5	53.8	54.0	54.7	54.8	54.4	54.2	50.5						
500	49.2	49.9	50.7	52.2	53.0	53.9	54.8	55.2	54.5	53.5	49.8						
630	50.7	52.2	54.2	55.9	57.0	57.3	58.5	58.6	56.6	54.5	49.6						
800	51.7	53.5	53.5	55.3	56.5	57.0	58.1	57.7	57.0	54.9	48.8						
1000	49.1	51.2	52.2	53.4	56.7	58.4	59.7	59.8	59.1	54.2	48.2						
1250	50.5	51.8	54.0	56.3	59.1	60.7	62.3	61.4	60.4	56.8	48.3						
1600	55.8	57.4	59.1	63.2	66.8	69.3	70.1	68.4	66.7	62.7	51.9						
2000	54.8	57.2	59.6	63.5	66.1	67.9	68.4	67.5	65.7	60.4	51.2						
2500	52.9	55.5	58.2	62.4	64.2	67.7	67.7	65.7	64.4	57.5	48.9						
3150	53.4	56.3	59.4	64.4	67.6	69.2	70.4	68.8	66.2	61.1	51.4						
4000	52.8	55.6	59.1	64.1	67.2	68.9	70.1	69.2	67.3	60.0	50.2						
5000	51.7	54.8	58.2	63.3	66.6	67.9	69.5	69.4	66.9	59.8	48.0						
6300	49.0	52.2	55.6	61.2	64.7	66.1	67.9	67.0	65.6	56.9	45.2						
8000	45.6	50.0	52.9	59.2	62.5	64.8	65.9	65.1	63.6	54.3	41.9						
10000	42.8	47.0	51.4	57.8	60.4	63.2	63.9	63.7	61.5	52.2	38.0						
12500	39.3	43.2	47.2	54.5	57.4	59.9	60.4	59.9	57.6	47.0	31.5						
16000	31.3	35.7	40.7	46.9	50.7	53.1	54.6	54.9	50.6	38.3	20.3						
20000	24.3	29.2	34.5	41.6	45.1	46.8	49.3	48.4	44.2	30.3	6.8						
25000	17.9	19.7	24.9	33.3	36.4	38.0	39.4	38.4	33.1	18.5							
31500		6.9	12.9	21.3	24.3	27.0	27.2	24.4	17.3								
40000				2.0	5.4	7.8	6.1	2.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.2	66.9	69.0	73.0	75.9	77.6	78.6	77.7	76.1	70.6	63.9						
PNDB	76.8	79.8	82.2	86.6	89.5	91.0	92.1	91.1	89.0	83.9	75.1						

SIDELINE 200. FT. (60.96 M)
VEHICLE F-55
CONFIG 75-1F
LOC SCHENECTADY
DATE 1/17/75
RUN 59/3
TAPE
BAR 30.2 HG (0.1899. N/M**2)
TAMB 32. DEG F (273. DEG K)
TWET 23. DEG F (268. DEG K)
HACT 0.69 GM/M3 (0.00069 KG/M3)
NFA 6920. RPM (725. RAD/SEC)
NFK 7107. RPM (744. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 604. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 26 HR. 14.9

OVERALL SOUND PRESSURE LEVELS (53. MIC, FA 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	63. (1.10)	74. (1.29)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
TO																			
63																			
RADIAL 17. FT. 80																			
(5. HZ) 100	68.2	72.1	72.9	73.4	73.9	74.7	74.4	75.4	78.5	83.9	87.4								112.5
VEHICLE RPM 125	75.9	77.6	77.1	77.2	75.5	76.2	78.4	80.4	81.7	83.6	87.1								114.1
CONFIG 75=1F 160	74.8	74.9	74.9	76.2	75.5	77.2	79.6	80.2	82.5	84.9	87.6								114.2
LOC SCHENECTADY 200	73.8	73.1	73.9	75.2	76.5	78.9	78.9	81.7	82.7	85.8	88.3								115.0
DATE 3/17/75 250	77.5	77.6	78.4	80.2	80.4	81.4	82.6	84.1	84.7	86.5	89.1								116.6
RUN 59/4 315	79.6	79.1	79.1	80.2	80.9	80.7	81.1	82.4	83.2	85.6	88.6								116.0
TAPE 400	76.8	77.4	77.4	78.7	79.9	79.4	80.9	81.9	82.5	84.9	86.1								115.1
BAR 30.2 HG 500	75.1	75.4	75.9	77.8	77.7	79.2	80.9	81.9	83.2	84.4	84.9								114.6
(1018.9. MB) 630	77.4	77.7	78.7	80.2	81.2	82.2	83.9	84.7	84.5	85.4	84.6								116.6
TAMB 32. DEG F 800	78.7	78.2	78.9	80.2	80.9	82.7	83.9	84.4	85.0	85.8	84.2								116.7
(273. DEG K) 1000	77.2	77.7	77.7	80.5	81.2	83.0	85.1	86.4	86.3	85.6	83.9								117.4
TRET 23. DEG F 1250	77.0	77.7	79.5	81.9	84.0	85.5	87.4	87.7	87.5	86.4	83.4								119.0
(268. DEG K) 1600	80.7	81.3	82.7	85.3	87.5	89.6	91.1	91.5	90.4	87.4	83.2								122.3
WACT 0.69 GM/M3 2000	88.5	89.3	90.7	93.9	94.5	96.6	97.6	96.9	97.4	94.2	90.4								129.5
(.00069 KG/M3) 2500	92.5	93.8	95.7	98.9	98.6	99.1	98.8	98.6	98.5	89.2	85.1								125.6
NFA 7484. RPM 3150	91.4	93.0	95.4	98.7	98.0	99.3	98.8	98.8	98.0	90.7	86.1								126.5
(805. RAD/SEC) 4000	93.8	95.7	98.8	98.6	98.7	98.4	98.4	99.7	98.4	94.1	90.2								129.0
NFK 7892. RPM 5000	91.3	92.6	95.2	98.5	98.9	98.4	97.1	97.1	97.1	92.0	88.4								128.0
(826. RAD/SEC) 6300	88.5	92.8	95.8	98.4	98.2	98.5	97.0	97.4	98.3	91.9	88.7								126.3
NFD 8823. RPM 8000	79.3	80.4	83.5	88.5	91.3	93.3	95.7	97.0	96.5	91.0	85.9								127.1
(924. RAD/SEC) 10000	77.9	79.3	83.4	88.6	92.0	93.8	96.3	97.4	97.2	91.4	86.0								127.8
NO. OF BLADES 15 12500	76.7	78.3	82.0	87.7	90.9	93.0	95.0	96.5	96.5	90.8	85.8								127.0
FAN TIP SPEED 16000	73.8	75.4	79.3	84.4	87.3	89.8	92.8	95.0	93.8	87.9	83.7								125.0
671. FT/SEC 20000	72.7	74.6	78.9	83.9	86.7	89.4	92.8	95.0	94.0	88.8	82.8								125.0
25000	71.2	72.6	77.0	82.6	85.1	88.0	91.5	93.8	93.9	88.4	81.9								124.1
31500	69.5	71.3	75.2	80.4	83.9	86.9	89.8	91.6	92.1	86.9	79.1								124.2
40000	64.1	67.8	71.8	76.1	79.2	82.5	85.9	87.0	87.8	82.5	72.8								121.3
50000	63.8	63.6	68.3	71.2	74.7	78.4	81.4	81.9	82.1	78.5	67.4								118.2
63000	61.5	61.2	64.1	66.9	67.5	70.6	74.2	73.7	74.3	71.1	62.2								113.4
80000	60.5	64.0	65.2	62.9	63.1	64.1	66.8	65.5	65.8	64.1	61.5								111.5
OVERALL MEASURED	93.8	94.9	97.1	101.2	103.1	105.2	107.8	108.8	107.7	103.3	100.4								130.9
OVERALL CALCULATED PNDB	107.3	108.3	110.4	114.6	116.8	117.9	119.6	120.5	119.8	116.3	113.1								

FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE - MONTH 3 DAY 26 HR. 14.9

MODEL SCALE PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
	50																	
	54																	
SITELINE 200. FT.	60																	
(60.96 M)	100	44.9	49.4	50.8	51.7	52.3	52.9	52.2	52.3	54.1	57.3	57.3						
VEHICLE R-55	125	52.3	54.3	55.0	55.4	55.9	55.1	54.1	57.3	56.2	56.9	56.9						
CONFIG 75-1F	160	51.7	52.3	52.7	54.1	53.9	53.8	56.1	56.9	57.8	58.0	57.1						
LOC SCHENECTADY	200	49.1	50.1	51.6	53.2	54.1	56.9	57.4	58.3	58.0	58.9	57.7						
DATE 1/17/75	250	53.5	54.6	56.2	58.2	58.5	59.4	60.1	60.7	59.9	59.5	57.2						
RUN 59/4	315	54.4	55.3	56.7	58.1	58.9	58.5	58.5	58.9	58.3	58.3	55.5						
TAPE	400	52.6	54.1	54.8	56.5	56.8	57.2	58.2	58.3	57.4	57.4	54.8						
BAP 30.2 HG	500	52.7	52.3	53.2	54.7	55.5	56.9	58.1	58.2	58.0	56.9	53.3						
(1018.90. MB)	630	52.9	54.2	55.7	57.9	57.2	59.8	61.0	60.8	59.1	57.5	52.8						
TAMB 32. DEG F	800	54.0	54.5	56.7	57.9	58.6	60.2	60.4	60.4	59.5	57.7	52.0						
(273. DEG K)	1000	52.4	53.9	54.7	57.4	58.7	60.4	62.0	62.3	60.8	57.5	51.4						
TDEW 23. DEG F	1250	53.0	53.8	56.3	59.1	61.4	62.7	64.3	63.4	61.4	58.0	50.6						
(268. DEG K)	1600	55.5	56.9	59.3	62.9	64.8	66.6	67.6	66.9	64.7	58.7	49.9						
HACT 0.69 GM/M3	2000	60.0	62.9	67.1	70.8	71.9	73.4	73.9	74.2	71.4	65.1	56.7						
(0.00069 KG/M3)	2500	56.9	59.3	61.9	66.4	69.4	70.7	70.0	69.7	66.9	59.8	50.9						
NFA 7862. RPM	3150	55.4	58.2	61.4	66.1	68.5	70.7	71.6	69.6	66.0	60.8	51.2						
(835. RAD/SEC)	4000	57.9	60.4	64.3	69.5	70.7	72.4	73.8	74.0	70.8	63.5	54.2						
NFK 7892. RPM	5000	54.4	57.3	60.5	66.3	68.9	71.1	72.2	71.1	69.1	61.0	49.0						
(826. RAD/SEC)	6300	52.7	56.5	60.4	65.4	67.5	70.0	71.4	70.5	69.3	59.6	48.2						
NFD 8823. RPM	8000	49.1	52.8	56.9	62.5	65.5	67.3	68.9	68.8	66.1	56.8	46.6						
(924. RAD/SEC)	10000	46.8	50.3	55.2	59.1	64.6	66.2	67.9	67.4	64.7	54.5	40.8						
NO. OF BLADES 15	12500	42.8	46.4	51.5	58.9	61.4	63.1	64.2	63.9	60.9	49.8	34.5						
FAN TIP SPEED	16000	36.3	39.4	45.0	51.1	54.2	56.3	58.1	56.1	53.1	43.8	23.3						
671. FT/SEC	20000	24.1	33.2	39.5	46.6	48.9	51.0	53.0	52.4	47.5	33.0	10.8						
	25000	17.9	23.4	30.4	37.5	43.4	42.7	44.4	43.2	37.1	20.5							
	31500	3.4	10.8	18.1	25.3	29.3	31.5	31.9	29.1	21.3	0.4							
	40000				6.0	9.9	12.0	12.1	6.9									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		68.0	70.1	72.7	78.9	78.8	80.5	81.4	81.8	78.7	72.8	67.3						
PNLB		81.5	83.6	86.2	90.8	92.4	94.8	95.1	94.9	92.4	86.1	78.8						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE = MONTH 3 DAY 26 HR. 14.9

OVERALL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AFT RADIANS)

		53.	92.	71.	91.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	(0.92)	(1.04)	(1.24)	(1.41)	(1.59)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	FIG.	110.	FIG.	FIG.	FIG.	3	
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. MI	100	69.3	71.6	72.6	73.2	73.7	74.4	74.6	75.2	75.7	83.8	87.6								112.5
VEHICLE R-55	125	76.0	78.1	78.9	79.7	77.1	77.2	78.4	79.9	81.0	83.6	87.1								114.0
COUPLE 79-1F	160	73.9	74.4	74.4	75.0	75.6	75.4	79.1	79.9	82.0	84.9	87.1								114.0
LOC SCHENECTADY	200	73.5	73.1	73.9	75.7	76.5	77.6	79.6	81.4	82.7	85.5	88.1								114.9
DATE 1/17/75	250	77.3	77.9	78.6	79.9	60.1	80.6	82.6	83.9	84.7	86.8	87.8								116.7
RUN 39/5	315	79.6	79.3	79.9	79.8	79.9	80.9	81.1	81.9	83.5	84.9	86.9								115.8
TAPE	400	77.1	76.9	77.4	78.2	78.7	79.4	80.6	81.4	82.9	84.8	85.9								114.8
BAR 30.2 HG	500	75.1	75.4	76.2	77.0	77.7	79.2	80.9	82.2	82.7	83.9	84.4								114.4
(1018	630	77.7	77.2	78.9	80.5	80.9	82.0	83.9	83.9	84.5	84.8	84.8								116.4
TAMB 32. DEG F	800	78.7	78.4	78.9	80.5	80.9	82.7	83.6	84.2	84.8	84.9	84.4								116.6
(273. DEG K)	1000	77.2	77.2	77.7	80.3	81.3	83.0	85.4	85.9	86.3	85.4	83.2								117.3
TRET 23. DEG F	1250	78.3	77.7	80.0	81.5	83.7	85.5	87.6	87.7	87.8	85.9	83.4								119.0
(268. DEG K)	1600	81.7	81.0	82.4	85.4	87.3	89.8	91.6	91.0	90.5	87.4	83.4								122.3
HACT 0.69 GM/M3	2000	89.2	85.3	91.2	93.4	94.3	96.5	98.1	99.2	98.3	93.9	90.2								129.7
(0.00069 KG/M3)	2500	82.0	83.3	85.4	89.9	92.1	94.1	93.6	93.6	93.9	89.7	85.1								125.5
NFA 7479. RPM	3150	81.7	83.9	84.9	89.4	92.3	94.0	95.8	94.1	95.2	89.9	85.0								126.3
(674. RAD/SEC)	4000	83.9	85.4	86.8	92.9	95.9	96.4	98.2	99.7	98.6	94.1	90.7								129.8
NFK 7887. RPM	5000	80.5	82.1	85.4	88.9	92.9	95.1	96.8	98.6	98.8	91.3	88.4								127.7
(826. RAD/SEC)	6300	80.9	82.1	85.1	90.1	92.5	95.8	97.0	97.4	98.8	91.7	88.4								128.5
NFB 8423. RPM	8000	79.3	79.9	83.7	88.5	91.0	93.3	95.5	96.5	95.8	90.7	85.4								126.7
(824. RAD/SEC)	10000	77.2	78.1	83.1	88.1	91.5	93.0	95.8	97.4	97.0	90.9	86.8								127.6
NO. OF BLADES 19	12500	76.4	77.8	81.8	87.7	90.4	93.0	95.0	96.0	96.5	90.6	85.8								126.9
FAN TIP SPEED	16000	73.3	75.2	78.8	83.8	87.8	90.1	92.5	94.7	94.3	87.8	82.9								123.0
870. FT/SEC	20000	72.2	74.4	78.1	84.1	86.5	89.6	92.1	95.0	94.6	88.5	83.1								123.5
	25000	71.2	72.9	76.5	82.4	85.1	88.0	91.0	93.3	93.9	87.8	81.9								124.8
	31500	69.2	71.5	74.7	81.2	83.6	86.6	89.8	91.8	91.6	85.5	79.1								123.8
	40000	66.4	67.5	71.0	76.4	78.7	83.0	86.1	87.3	87.8	82.1	72.8								121.4
	50000	63.8	63.3	67.3	71.9	74.2	78.1	81.7	81.7	82.1	78.2	67.7								118.1
	63000	63.5	60.7	64.1	64.7	67.0	70.6	73.9	73.7	74.1	71.1	62.8								113.2
	80000	64.5	63.0	65.2	62.8	63.1	64.1	65.5	65.3	66.1	64.3	61.5								111.4
OVERALL MEASURED																				
OVERALL CALCULATED		94.0	94.8	97.1	100.9	103.0	105.2	106.9	107.8	107.8	103.8	100.3								130.6
	PNOY	107.6	108.2	110.4	114.1	116.1	117.9	119.6	120.3	120.0	116.1	113.2								

ORIGINAL PAGE IS OF POOR QUALITY

SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	64. (1.12)	74. (1.29)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.11)	131. (2.29)	141. (2.46)	151. (2.63)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 230. FT.	80																	
(60.96 M)	100	44.6	48.2	50.6	51.5	52.3	52.7	52.4	52.1	54.3	57.3	57.8						
VEHICLE R-55	125	52.3	55.3	54.7	54.9	55.5	55.3	54.1	54.4	54.5	56.9	56.9						
CONFIG 75-1F	160	49.9	51.5	52.2	54.1	53.7	54.5	56.8	56.7	57.3	54.0	56.6						
LOC SCHENECTADY	200	49.6	50.1	51.4	53.7	54.9	56.7	57.9	58.1	58.0	54.9	57.4						
DATE 1/17/75	250	53.9	54.9	56.2	57.9	58.2	58.6	60.1	60.5	59.9	56.5	57.9						
RUN 59/5	315	54.2	55.7	56.4	57.8	57.9	58.8	58.5	58.4	54.5	57.9	55.8						
TAPE	400	52.4	53.6	54.8	56.5	56.8	57.2	57.9	57.8	57.1	57.2	54.5						
BAR 29.2 IN HG	500	50.7	52.9	53.5	54.7	55.5	56.9	54.1	54.4	57.5	54.3	52.8						
(81650. N/M2)	630	53.1	53.7	56.2	57.1	58.7	59.6	61.8	60.1	59.1	56.9	52.8						
TAMB 32. DEG F	800	54.3	54.4	56.0	58.3	58.6	60.2	60.4	60.2	59.2	56.9	52.3						
(273. DEG K)	1000	52.4	53.4	54.7	57.7	59.5	61.4	62.2	61.8	60.6	57.2	50.7						
TRCT 23. DEG F	1250	53.0	53.8	56.0	58.9	61.1	62.7	64.3	63.4	61.9	57.5	50.8						
(268. DEG K)	1600	55.9	56.9	59.1	62.4	64.5	66.4	66.1	66.4	64.4	59.7	50.2						
WACT 0.69 KG/M3	2000	60.3	60.3	62.6	70.5	71.8	73.1	74.4	74.5	71.9	64.9	50.4						
(0.369 KG/M3)	2500	56.3	56.8	61.7	66.5	68.9	70.7	69.7	68.7	67.2	59.3	50.9						
NFA 7479. RPM	3150	55.7	58.2	60.9	65.9	69.4	70.4	71.6	68.8	66.2	60.1	50.7						
(834. RAD/SEC)	4000	57.3	59.1	64.3	69.3	71.2	72.4	73.6	74.0	71.1	63.5	54.7						
NFK 7987. RPM	5000	53.7	56.5	66.7	69.5	68.9	70.9	72.0	70.6	68.9	60.3	49.8						
(836. RAD/SEC)	6300	52.5	55.7	59.9	69.4	67.7	70.8	71.4	70.5	69.8	58.4	48.8						
NFC 8823. RPM	8000	49.1	52.3	57.1	62.5	65.2	67.3	68.7	68.3	65.4	56.5	44.1						
(924. RAD/SEC)	10000	48.1	50.7	54.8	61.6	64.1	66.2	67.4	67.4	64.5	54.8	42.8						
NO. OF BLADES 16	12500	47.5	49.9	51.2	58.3	61.9	63.1	64.2	63.4	60.9	49.8	34.8						
FAN TIP SPEED	16000	31.8	34.2	44.2	50.4	54.7	54.6	57.8	57.9	53.6	40.3	22.5						
678. FT/SEC	20000	27.6	32.0	38.7	45.9	48.6	51.3	52.3	52.4	47.5	32.0	18.3						
	25000	17.9	23.7	29.9	37.5	40.4	42.7	43.9	42.7	37.1	19.8							
	31500	3.2	10.9	17.6	26.0	29.8	31.3	31.2	29.1	20.8								
	40000				6.2	9.6	12.5	12.6	7.1									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		69.2	70.8	72.7	74.6	76.6	80.5	81.4	80.8	78.9	72.4	67.2						
	PNLB	81.8	83.5	86.3	90.3	92.4	94.0	94.9	94.7	92.6	85.9	78.1						

PAGE 1 FULL SCALE DATA SCANNING PROGRAM PROC. DATE = MONTH 3 DAY 26 HR. 14.9

[illegible] SIDE DEFLECTION LEVELS 150. DEG. F. 70 PERCENT REL. NUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	RPSC	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	PHL
RADIAL 17. FT.																			
(5. M)	1200	70.5	73.9	76.9	78.0	73.3	77.9	73.7	68.8	72.2	74.5	76.7							110.1
VEHICLE R=55	1250	67.5	69.2	71.4	69.7	69.3	67.4	67.5	71.3	72.0	73.3	74.9							104.5
CONFIG 79-1F	1600	64.5	64.7	64.9	67.5	66.3	69.4	69.8	70.3	71.7	73.0	74.9							103.3
LCC SCHEDULED	2000	64.3	64.4	64.5	66.5	67.3	68.9	69.8	71.7	72.2	74.5	76.4							104.4
DATE 1/17/75	2500	66.5	68.9	69.4	68.2	69.3	69.9	71.0	72.0	72.7	73.8	75.1							104.9
RUN 5?/6	3150	68.2	70.4	72.1	71.3	71.3	71.9	71.8	73.2	73.0	73.8	74.4							105.9
TYPE	4000	67.2	67.8	69.2	70.3	69.3	70.9	71.3	72.3	72.7	73.5	74.2							105.1
BAR 29.2 HG	5000	65.6	67.5	67.7	68.8	69.3	70.5	71.8	73.0	74.0	74.3	73.9							105.3
(814.6 KN/M2)	6300	70.1	70.7	71.4	72.5	73.5	75.9	76.1	74.5	76.5	76.3	74.4							110.6
TAMB 32. DEG F	8000	70.4	73.3	76.7	77.3	73.1	74.9	75.3	74.4	77.5	77.6	74.7							108.7
(273. DEG K)	10000	68.6	69.7	69.9	72.3	73.9	74.2	78.0	79.5	80.7	80.5	75.5							110.9
TACT 23. DEG F	12500	70.9	74.8	75.0	81.1	82.7	85.3	84.3	87.6	87.3	86.9	81.7							110.6
(268. DEG K)	16000	70.9	74.1	75.2	77.4	80.5	82.5	84.5	84.8	84.5	84.1	78.8							110.9
HACT 0.69 GM/M3	20000	73.9	74.3	76.5	79.7	81.2	83.3	84.5	84.8	84.3	83.9	79.2							110.2
(0.0009 PS/IN3)	25000	75.6	74.6	74.4	81.2	84.7	87.5	89.3	89.5	91.8	89.6	83.9							121.2
NFA 5377. RPM	3150	72.9	74.3	75.4	78.7	82.7	85.5	87.5	86.9	88.2	86.5	81.4							118.7
(563. RAD/SEC)	4000	72.5	74.0	75.5	77.1	83.4	85.7	87.8	88.3	90.4	87.3	81.3							119.9
NFK 5523. RPM	5000	73.9	72.2	74.2	77.3	82.6	84.6	86.5	87.5	88.8	85.7	79.4							118.2
(578. RAD/SEC)	6300	69.2	70.6	73.1	77.4	81.9	83.5	85.7	87.8	87.2	85.1	78.5							117.5
NFD 5823. RPM	8000	66.5	69.4	71.2	74.8	81.9	82.3	83.6	85.1	86.3	83.9	77.7							116.1
(924. RAD/SEC)	10000	66.3	64.4	69.6	72.7	79.4	81.5	84.0	85.7	87.8	84.1	77.6							116.5
NO. OF BLADES 18	12500	65.3	64.6	68.8	73.5	78.1	79.7	82.7	84.6	86.2	82.5	76.8							115.5
FAN TIP SPEED	16000	62.5	64.2	65.3	70.5	74.2	77.8	80.4	82.6	84.2	80.8	74.7							113.7
460. FT/SEC	20000	61.1	62.2	63.8	69.1	73.7	75.9	78.7	81.6	83.8	79.7	73.1							113.2
	25000	59.1	60.4	61.9	67.1	72.5	72.7	76.4	78.7	80.9	76.5	70.2							111.8
	31500	57.4	58.8	60.3	65.2	69.8	72.1	74.9	77.8	79.3	75.2	68.1							110.8
	40000	55.5	55.8	57.5	61.8	65.1	68.2	72.3	73.4	75.3	72.8	62.1							108.2
	50000	55.7	54.6	57.3	58.3	60.3	63.9	67.3	68.8	69.3	67.4	57.2							104.9
	63000	55.6	53.8	56.1	55.5	56.2	58.1	60.3	60.6	62.8	60.3	54.8							101.3
	80000	57.2	57.5	55.7	54.8	54.3	54.8	55.4	54.8	55.3	54.3	52.5							102.2
OVERALL MEASURED																			
OVERALL CALCULATED		64.5	65.5	66.8	70.3	73.8	75.2	77.8	77.9	79.8	77.2	71.9							120.2
	PNLR	97.4	98.4	100.8	103.1	106.8	108.3	110.8	110.9	111.8	110.3	105.3							

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA PROCESSING PROGRAM

PREC. DATE - MONTH 3 DAY 20 HR. 14.9

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PREC.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.
	40																		
	63																		
SITE LINE 200. FT.	80																		
(65.96 M)	100	46.9	51.2	54.9	57.9	57.7	56.2	51.1	45.7	42.8	40.3	40.6							
VEHICLE R-55	120	43.7	46.4	49.3	49.8	47.7	45.8	45.2	43.1	42.4	43.8	44.7							
CONFIG 75-1F	140	40.6	41.9	42.7	44.5	44.6	44.5	46.4	47.8	47.1	46.2	46.4							
LOC SCHENECTADY	200	43.0	43.4	42.3	44.5	45.2	46.9	47.3	48.4	47.5	47.0	45.7							
DATE 1/17/75	220	42.4	43.9	46.3	47.2	47.4	47.8	48.5	48.6	47.8	46.7	44.3							
RUN 59/6	310	45.1	47.3	47.7	48.1	49.3	49.8	49.1	48.7	48.8	48.5	43.3							
TAPE	400	42.7	44.7	45.6	46.1	47.8	48.7	48.4	48.6	47.6	46.1	42.8							
BAR 30.2 MB	530	41.2	44.1	45.8	46.5	47.2	48.1	48.8	49.3	48.9	46.7	42.4							
(31896. N/M2)	670	45.8	47.3	48.7	50.4	51.4	52.6	53.1	52.7	51.1	48.6	42.6							
TAT 32. DEG F	810	47.7	48.9	47.8	49.3	50.8	52.9	52.3	52.8	52.8	49.8	42.6							
(273. DEG K)	1000	43.8	46.0	46.9	49.7	51.4	53.6	54.9	55.4	55.8	52.6	43.0							
TJET 23. DEG F	1250	51.9	52.9	52.8	54.4	60.1	62.5	63.8	62.7	61.4	60.4	48.9							
(268. DEG K)	1600	48.7	49.9	51.3	52.5	57.7	59.6	61.8	60.3	58.2	55.4	44.7							
MACH 0.60 SM/MS	2000	49.5	50.8	52.9	54.8	58.3	60.2	60.8	60.1	57.9	54.8	45.5							
(.20769 KG/M3)	2500	52.6	52.1	54.7	57.9	61.6	64.2	65.4	64.6	63.1	60.3	49.7							
QFA 5377. PSF	3130	46.8	48.2	51.6	54.2	58.3	61.9	63.3	61.7	61.2	57.9	46.5							
(583. MB/SEC)	4000	44.6	46.7	51.1	54.2	59.6	61.7	63.2	63.4	62.8	56.7	45.3							
NFK 5523. PSF	5000	44.1	44.6	49.5	54.1	58.5	60.3	61.8	61.4	60.1	54.7	42.8							
(576. MB/SEC)	6300	41.4	44.3	47.6	52.5	57.1	58.5	60.1	60.1	58.3	52.8	40.8							
NFS 5423. PSF	8000	37.2	41.6	44.6	49.8	54.1	54.2	56.8	56.9	55.8	49.7	38.4							
(826. MB/SEC)	10000	35.3	38.2	41.4	46.1	52.8	53.8	55.4	55.7	54.5	47.2	32.8							
NO. OF BLADES 19	12500	31.4	34.7	37.5	42.9	48.5	49.9	51.9	52.8	50.8	41.7	28.1							
FAN TIP SPEED	16000	24.8	28.2	31.8	37.2	41.1	44.1	45.7	45.7	43.6	32.8	14.3							
469. FT/SEC	20000	16.8	20.7	24.5	30.9	35.8	37.8	38.9	39.8	38.5	24.8	0.3							
	25000	5.6	11.2	15.2	22.9	25.8	27.4	28.3	28.8	28.1	8.7								
	31500			2.9	16.1	14.5	18.8	17.1	15.4	8.6									
	40000																		
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED	AVER	59.1	61.1	63.2	64.8	69.3	71.3	72.3	71.8	71.1	67.1	58.8							
	PNDB	71.6	73.6	75.9	79.6	82.8	84.8	85.8	85.3	85.8	80.6	70.6							

PAGE 1 FULL SCALE DATA PRINCETON PATTERN — PROG. DATE = MONTH 3 DAY 25 HR. 13.8

MODEL SURFACE PRESSURE LEVELS (NO. DEC. P. TO REPRESENT 1 L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PRESS	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.78)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	63																		
RADIAL 17. FT.	90																		
5. MI	120	73.0	74.4	80.9	92.0	82.1	80.9	78.1	71.9	71.5	74.1	77.6							113.4
VEHICLE GRID	125	67.7	69.9	78.7	90.4	73.4	87.9	67.4	71.7	71.5	72.1	75.4							104.8
CASE IC 75-16	140	63.2	65.4	65.7	69.4	69.4	68.7	69.6	76.4	72.8	73.9	75.6							104.2
LOC SCHROEDINGER	200	63.7	64.4	69.1	67.2	68.1	78.1	78.9	72.4	72.7	75.3	76.8							105.2
DATE 1/17/75	270	64.7	67.2	69.4	69.4	67.6	78.4	71.3	71.9	73.8	74.3	75.3							105.3
RUN 54/1	315	69.7	73.4	73.9	71.4	71.4	72.2	73.1	72.4	72.4	74.3	75.1							106.2
TAPE	410	67.5	68.4	69.6	78.2	69.9	78.9	71.4	72.1	72.5	73.8	74.6							105.3
BAR 29.7 MB	500	64.5	67.4	67.9	69.2	69.6	78.2	71.9	72.2	73.2	74.3	73.9							105.2
(69491. N/M2)	630	79.6	78.7	71.7	71.2	73.7	74.2	75.4	76.4	76.8	76.8	74.4							106.5
TAMB 63. DEG F	630	73.4	78.7	78.9	72.2	72.8	74.4	73.1	78.8	77.2	77.8	78.1							106.7
(279. DEG K)	1050	69.8	78.4	78.1	72.2	73.8	75.7	77.4	78.8	78.7	80.1	75.1							106.4
TWET 39. DEG F	1250	77.3	76.5	79.1	79.5	81.7	84.7	86.3	86.9	84.2	88.4	88.9							110.3
(277. DEG K)	1400	75.3	74.7	73.6	78.5	83.2	83.8	84.6	84.8	84.2	84.4	77.9							110.1
HACT 5.12 GM/M3	2030	73.9	71.5	75.4	78.6	83.2	82.5	83.4	84.1	83.2	83.4	78.4							110.4
(.003512 KG/M3)	2530	73.8	75.3	76.8	80.8	83.5	84.3	87.8	88.1	88.2	84.1	82.8							110.9
MFA 5469. RPM	3150	71.8	74.3	74.9	78.6	81.4	84.2	86.9	86.6	87.2	88.9	88.3							110.8
(573. RAD/SEC)	4050	71.8	73.8	73.8	77.6	81.2	84.8	86.7	87.8	87.8	85.8	78.5							110.8
MFB 5555. RPM	5000	67.7	68.7	78.2	74.6	77.5	81.2	84.1	84.7	84.9	82.1	78.4							110.2
(582. RAD/SEC)	6300	65.8	67.5	68.8	73.8	73.6	68.4	83.4	84.8	83.9	88.8	78.8							110.3
MFB 6823. RPM	8050	64.2	66.7	68.8	72.2	75.3	78.8	81.7	82.5	83.2	88.2	76.1							110.2
(824. RAD/SEC)	10150	64.8	64.8	67.5	72.8	75.4	78.9	81.7	83.2	84.6	81.2	73.8							110.3
NO. OF BLADES 19	12850	64.2	64.7	66.8	71.6	75.3	78.4	80.8	83.3	84.6	81.8	74.8							110.2
FAN TIP SPEED	16000	62.2	63.5	64.8	70.8	74.8	78.5	79.9	82.3	84.8	78.9	74.8							110.8
827. FT/SEC	20300	61.3	62.1	63.5	68.8	73.4	76.4	79.3	81.8	83.5	79.8	73.2							110.4
	25830	60.4	60.9	61.9	68.2	71.6	73.7	77.8	79.3	84.3	79.5	78.5							110.4
	31530	58.8	58.7	62.8	78.1	73.8	75.8	77.8	79.1	88.2	78.6	88.6							110.4
	40000	59.8	58.2	60.8	67.8	78.5	72.7	75.8	76.1	77.3	74.8	85.8							111.1
	50000	60.3	59.2	68.8	67.7	67.7	69.8	71.3	71.4	72.3	71.1	83.8							109.3
	63000	61.2	59.5	61.2	68.4	67.6	68.5	68.4	67.8	67.6	67.8	84.7							110.8
	80000	63.8	63.8	61.5	68.5	66.2	69.8	68.8	68.1	68.8	67.8	86.8							110.2
OVERALL MEASURED		44.7	45.2	46.8	88.7	91.6	94.1	98.9	98.7	97.4	98.8	91.8							120.4
OVERALL CALCULATED	PWSB	98.4	87.5	84.8	102.8	104.4	107.1	108.8	109.2	110.3	108.9	104.2							

O.C. PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 25 HR. 13.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. MON. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-58
CONFIG 75-1
LOC SCHENECTADY
DATE 1/17/75
RUN 54/1
TAPE
BAR 29.7 MG (00401. N/M2)
TAMB 43. DEG F (279. DEG K)
TSET 39. DEG F (277. DEG K)
HACT 5.12 GM/M3 (.00512 KG/M3)
NFA 5469. RPM (573. RAD/SEC)
NFK 5555. RPM (582. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 477. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	51.3	53.7	54.8	61.2	60.5	59.2	58.9	48.8	47.8	49.5	47.5						
125	44.0	46.1	48.5	46.6	49.7	46.1	45.1	46.5	46.9	45.4	45.1						
160	41.4	42.5	43.4	46.6	46.5	46.8	47.2	47.2	47.1	47.0	45.1						
200	39.8	41.4	42.8	45.9	46.3	48.2	48.4	49.1	48.3	48.4	46.2						
250	42.6	44.1	46.0	47.0	47.7	48.3	48.8	48.5	48.1	47.2	44.5						
315	45.6	47.3	48.4	49.3	49.4	50.0	49.5	48.9	47.5	47.1	44.0						
400	43.2	45.2	46.1	48.3	47.5	48.7	48.0	48.5	47.4	46.4	43.3						
500	42.1	44.1	45.2	46.9	47.5	47.9	49.0	48.4	48.0	46.8	42.3						
630	44.0	47.2	48.9	50.8	51.4	51.8	52.0	52.5	50.4	48.8	42.5						
800	46.1	47.1	48.0	49.7	50.3	51.9	52.0	52.2	51.7	49.5	43.0						
1000	44.0	46.7	47.1	49.6	51.2	53.0	54.7	54.7	54.6	51.9	42.6						
1250	52.3	52.5	53.0	56.9	59.1	61.9	63.0	62.6	60.3	58.9	48.0						
1600	50.1	50.6	52.3	55.6	57.4	60.0	61.1	60.1	58.1	55.7	44.6						
2000	48.4	49.2	52.1	55.5	57.0	59.4	59.9	59.4	56.9	54.3	44.9						
2500	48.2	50.8	53.2	57.1	60.4	62.9	63.9	63.2	63.6	58.8	48.6						
3150	45.8	49.2	50.8	55.1	58.4	60.7	61.8	61.3	60.2	56.0	45.4						
4000	45.2	47.7	49.3	53.6	57.2	59.9	62.1	61.3	60.3	55.0	42.5						
5000	40.9	43.1	45.5	50.4	53.4	56.9	59.3	58.6	56.9	51.0	39.8						
6300	38.1	41.1	43.5	48.1	50.8	55.4	57.8	57.1	55.0	48.5	36.6						
8000	33.1	39.1	41.4	46.2	49.4	52.7	54.9	54.3	52.8	46.0	32.8						
10000	32.9	36.4	39.3	44.5	48.5	51.3	53.3	54.3	52.1	44.3	29.8						
12500	30.3	32.9	36.1	41.9	45.7	48.7	50.0	50.7	49.2	41.0	23.6						
16000	23.5	27.5	30.4	36.8	40.8	43.0	45.2	45.4	42.1	32.8	13.6						
20000	16.7	20.8	24.1	31.7	35.7	38.0	39.5	39.4	36.2	24.2	0.4						
25000	7.1	11.7	15.4	23.1	27.0	28.5	29.9	28.6	23.5	9.8							
31500		0.0	4.9	15.0	18.4	19.6	19.2	16.6	9.5								
40000					1.2	2.3	1.3										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.5	61.1	63.6	66.6	68.2	70.3	71.3	70.7	69.5	66.2	57.6						
PNDB	70.4	72.6	74.8	78.4	81.1	83.9	84.6	84.0	83.4	79.3	69.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 25 HR. 13.6

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT O.L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

RADIAL 17. FT.
(5. IN)
VEHICLE R-55
CONFIG 75-16
LOC SCHENECTADY
DATE 1/17/75
RUN 54/2
TAPE
BAR 29.7 HG
(80401. N/M2)
TAMB 43. DEG F
(279. DEG K)
TWET 39. DEG F
(277. DEG K)
HACT 5.12 GM/M3
(.00512 KG/M3)
NFA 8265. RPM
(866. RAD/SEC)
NFK 8364. RPM
(876. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED
547. FT/SEC

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	73.0	75.9	73.6	78.9	78.9	78.2	71.1	71.9	72.7	74.3	79.9							107.9
125	69.3	70.3	72.1	78.4	71.1	78.7	71.1	74.7	74.5	78.3	79.4							107.4
160	69.5	70.1	69.8	78.7	78.9	78.7	72.6	73.9	75.5	77.9	79.9							107.8
200	68.8	68.9	69.4	78.7	71.5	73.9	74.1	76.1	77.2	78.6	81.3							109.3
250	78.5	78.9	72.1	73.1	73.1	73.6	74.6	75.6	76.2	78.3	79.8							109.8
315	73.0	77.6	73.9	74.4	74.8	75.2	75.6	75.4	76.7	78.1	79.1							109.7
400	78.5	71.1	71.5	72.9	73.1	73.9	74.9	75.1	76.8	78.1	78.3							108.7
500	69.3	69.9	78.6	71.7	72.6	73.7	74.6	75.7	76.2	77.6	77.4							108.3
630	73.1	72.8	74.4	75.7	76.4	77.4	79.2	79.4	78.8	78.3	77.6							111.5
800	73.4	73.4	73.4	75.2	75.4	76.9	78.3	79.4	80.0	80.1	77.1							111.4
1000	71.6	72.9	72.9	74.9	76.6	78.2	80.4	81.9	82.5	82.1	77.3							113.1
1250	74.2	73.9	75.4	77.5	79.9	81.5	83.6	84.4	84.2	84.6	78.6							115.6
1600	82.7	82.2	82.9	86.3	89.5	89.8	92.1	91.4	90.7	91.9	82.4							123.2
2000	77.9	76.7	78.1	81.8	83.7	85.7	86.8	87.4	87.8	85.9	80.4							118.7
2500	75.4	76.2	77.6	81.6	84.3	86.5	88.8	87.6	88.5	84.9	79.6							119.2
3150	78.9	78.5	80.6	84.4	87.3	89.7	90.8	91.3	93.7	89.9	84.8							123.1
4000	74.1	75.4	77.8	80.9	84.3	87.2	88.9	90.8	89.9	85.3	80.2							120.4
5000	73.3	73.6	76.7	80.3	82.7	85.7	89.9	89.7	88.6	84.6	80.2							119.9
6300	69.6	71.5	73.4	77.2	80.6	84.6	87.4	87.2	87.4	83.8	78.8							118.8
8000	69.5	70.4	72.2	77.8	79.5	83.8	85.7	86.5	86.7	82.7	77.1							117.1
10000	68.1	69.7	72.8	77.8	80.1	83.4	86.2	87.7	88.8	83.5	77.5							118.3
12500	67.8	69.2	71.1	76.3	79.8	82.8	85.3	87.3	88.8	83.3	77.3							118.1
16000	66.1	66.9	69.3	74.8	78.2	80.7	83.9	86.3	87.1	81.9	76.5							117.8
20000	63.9	66.8	69.8	74.9	78.3	80.9	83.8	86.7	88.5	82.4	75.9							118.8
25000	65.2	65.6	67.2	73.2	76.1	79.2	82.8	84.5	85.8	80.5	74.8							116.4
31500	64.9	66.1	67.5	74.4	77.8	79.5	81.8	83.8	84.5	79.4	71.8							116.7
40000	64.8	65.6	66.8	72.8	74.5	77.2	79.5	81.4	82.1	77.8	67.7							115.8
50000	67.8	66.4	67.6	69.4	70.5	73.1	76.8	75.9	76.8	73.8	64.9							113.3
63000	64.8	66.9	68.4	68.9	68.3	70.2	70.7	70.4	70.4	69.6	65.2							112.3
80000	72.4	72.2	70.8	69.8	68.2	68.8	69.8	68.9	67.1	68.2	66.8							116.5
OVERALL MEASURED																		
OVERALL CALCULATED	86.8	88.3	89.4	92.7	95.3	97.3	99.5	100.2	100.8	98.1	93.4							131.7
PNDB	100.3	101.8	102.6	105.9	108.4	110.7	112.3	112.8	114.8	111.3	106.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-16
LOC SCHENECTADY
DATE 1/17/75
RUN 54/2
TAPE
BAR 29.7 HG (100401. N/M2)
TAMB 43. DEG F (279. DEG K)
TDCT 39. DEG F (277. DEG K)
HACT 5.12 GM/M3 (.00512 KG/M3)
NFA 6265. RPM (656. RAD/SEC)
NFK 6364. RPM (666. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED 547. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
80																	
100	49.4	53.2	51.6	49.2	49.3	48.4	48.9	48.8	48.3	49.8	49.8						
125	48.5	49.1	50.0	48.6	49.5	48.8	48.8	51.5	49.9	49.7	49.1						
160	48.7	47.2	47.7	48.3	47.1	48.8	50.2	50.7	50.8	51.0	49.4						
200	44.8	45.9	47.1	48.7	49.6	51.2	51.7	52.8	52.5	52.6	50.7						
250	46.5	47.8	49.7	51.1	51.2	51.6	52.1	52.2	51.3	51.2	49.0						
315	48.9	50.5	51.4	52.3	52.7	53.0	53.0	51.9	51.7	50.8	48.0						
400	46.3	47.9	49.1	50.7	51.1	51.7	52.1	51.5	50.9	50.7	47.0						
500	44.9	46.5	48.0	49.4	50.5	51.4	51.8	51.9	51.0	50.0	45.8						
630	48.6	49.4	51.6	53.3	54.2	55.0	56.4	55.5	53.6	51.6	45.6						
800	48.7	49.8	51.5	52.7	53.3	54.4	55.3	55.4	54.4	52.1	45.0						
1000	46.8	49.1	49.8	52.3	54.2	55.5	57.4	57.7	56.8	53.9	44.9						
1250	49.2	50.6	52.2	54.8	57.3	58.7	60.3	60.1	58.3	56.2	45.8						
1600	57.4	58.1	59.5	63.4	66.7	66.0	66.6	66.9	64.6	63.2	49.1						
2000	52.5	52.4	54.6	58.7	60.8	62.5	63.1	62.7	60.6	58.8	46.6						
2500	49.7	51.7	53.9	58.3	61.1	63.2	64.2	62.7	61.9	59.5	45.4						
3150	50.9	53.6	56.6	60.8	63.9	66.2	66.6	66.1	66.7	60.0	49.9						
4000	47.6	50.1	52.6	56.9	60.2	63.2	64.3	64.3	62.3	54.8	44.3						
5000	46.5	49.1	52.0	56.1	58.7	61.4	65.0	63.6	60.7	53.5	43.6						
6300	41.9	45.1	48.0	52.3	55.8	59.7	61.8	60.4	58.5	50.5	39.6						
8000	39.4	42.8	45.6	50.9	53.7	57.7	58.9	58.3	56.3	48.5	35.8						
10000	37.0	40.4	43.8	48.5	52.6	55.8	57.8	57.8	56.3	46.6	32.3						
12500	33.9	37.3	40.6	46.6	50.2	53.9	54.5	54.7	53.2	42.5	28.3						
16000	27.6	30.9	34.9	41.3	45.1	47.2	49.2	49.4	46.4	34.6	18.1						
20000	21.3	24.6	29.6	36.7	40.4	42.5	44.0	44.1	41.2	26.7	3.2						
25000	11.9	16.4	20.6	28.1	31.5	34.0	34.9	33.6	29.0	12.6							
31500		5.5	10.4	19.2	22.4	24.1	24.0	21.3	13.7								
40000				1.9	5.2	6.8	5.6	1.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.4	63.9	65.6	69.0	71.6	73.1	74.6	73.8	72.5	66.2	60.3						
PNDB	74.5	76.1	78.6	82.4	85.0	87.1	88.1	87.5	87.0	81.4	72.0						

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OF POOR QUALITY

OC PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 25 HR. 13.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

RADIAL 17. FT. (5. M)
VEHICLE PROP
CONFIG 75-16
LOC SCHENECTADY
DATE 1/17/75
RUN 54/3
TAPE
BAR 29.7 HG (1004C1. N/M2)
TAMB 43. DEG F (279. DEG K)
TSET 38. DEG F (276. DEG K)
HACT 4.60 GM/M3 (.00400 KG/M3)
NFA 7026. RPM (736. RAD/SEC)
NFK 7137. RPM (747. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 613. FT/SEC

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
50																		
63																		
80																		
100	66.8	71.2	72.6	71.7	71.9	70.9	70.9	72.2	75.5	79.8	83.9							109.4
125	74.3	79.1	79.1	77.4	77.9	73.2	74.1	77.2	78.2	80.8	83.9							112.4
160	72.3	72.6	72.4	73.4	73.5	73.2	75.9	77.2	79.2	81.8	83.6							111.3
200	71.0	70.9	71.6	72.2	74.4	76.4	76.9	78.9	80.2	82.8	84.8							112.3
250	74.5	74.6	75.4	76.1	76.6	76.9	78.6	79.4	80.7	82.1	84.1							112.8
315	76.3	76.4	76.6	77.7	77.4	78.2	78.6	79.1	80.0	82.3	83.1							113.1
400	74.1	74.4	74.6	74.2	76.1	76.7	77.8	78.8	80.0	81.6	82.3							112.1
500	72.6	72.6	73.4	74.7	75.4	76.4	77.9	79.2	79.5	81.1	81.4							111.6
630	75.6	75.5	75.6	78.2	79.2	79.4	81.4	82.2	82.0	82.6	81.4							114.2
800	75.6	75.6	76.4	77.9	77.9	79.7	81.1	81.9	82.2	83.1	80.9							114.1
1000	74.1	75.1	75.1	77.7	78.6	80.4	82.6	83.9	84.5	84.1	80.1							115.2
1250	75.7	75.4	77.1	79.3	80.9	83.0	85.1	85.6	86.2	84.6	80.6							116.9
1600	81.9	80.7	82.1	86.0	88.2	91.0	92.1	91.1	91.5	89.9	83.9							123.2
2000	81.7	81.5	82.9	86.3	88.7	91.0	92.3	91.9	92.0	90.1	84.9							123.6
2500	77.9	79.0	80.6	84.4	87.0	89.4	90.6	90.1	90.5	85.9	81.6							121.7
3157	75.7	80.0	81.4	85.4	88.0	90.3	92.3	92.3	93.7	88.7	84.1							123.6
4000	78.4	79.7	81.1	85.4	88.0	90.7	93.7	93.5	93.7	89.1	84.5							124.3
5000	75.6	76.2	79.5	82.9	85.2	89.4	91.9	93.2	91.1	86.8	82.5							122.7
6300	72.9	74.5	77.0	81.0	84.1	89.4	90.7	91.3	90.1	84.5	80.3							121.4
8000	71.8	74.2	75.8	81.3	83.3	87.0	89.7	90.5	90.0	84.7	80.2							120.8
10000	71.6	73.3	76.1	81.8	84.2	87.5	89.8	91.3	91.4	85.8	80.8							121.6
12500	70.9	72.5	75.5	80.7	83.6	86.4	89.1	91.9	91.6	85.9	80.3							121.7
16000	69.8	70.8	73.4	78.6	82.1	84.8	88.0	90.4	89.9	84.2	79.8							120.6
20000	69.0	69.7	72.9	78.6	81.7	85.0	88.7	91.0	91.3	85.5	79.8							121.8
25000	68.0	69.2	71.5	77.0	80.4	83.3	86.7	89.5	89.8	83.7	78.0							120.8
31500	66.9	68.8	71.5	78.4	80.8	84.0	86.3	88.6	88.7	82.1	76.1							121.8
40000	64.2	66.6	69.5	75.7	78.0	81.1	83.7	84.5	85.8	80.2	74.9							119.3
50000	64.5	65.9	68.1	71.2	73.2	76.3	79.8	79.9	80.6	76.9	67.0							116.7
63000	64.3	65.7	68.0	68.5	69.4	71.4	72.8	72.8	73.0	70.5	64.8							113.4
80000	71.8	68.3	70.1	68.1	67.9	68.7	68.7	68.3	67.3	67.5	65.5							115.6
OVERALL MEASURED	89.9	90.4	91.8	95.3	97.6	100.4	102.5	103.2	103.3	99.6	96.5							134.5
OVERALL CALCULATED	102.2	103.2	104.6	108.1	110.3	112.9	115.2	115.4	115.5	112.1	108.5							

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT R.H. MUN. BAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R=55
CONFIG 75-1C
LOC SCHENECTADY
DATE 1/17/75
RUN 54/3
TAPE
BAR 29.7 IN HG (100401. N/M2)
TAMB 43. DEG F (279. DEG K)
TDPT 38. DEG F (276. DEG K)
HACT 4.60 GM/M3 (.00460 KG/M3)
NFA 7026. RPM (736. RAD/SEC)
NFK 7137. RPM (747. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 613. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)												
	53.	82.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.
FREQ.	(.92)	(1.43)	(1.24)	(1.41)	(1.59)	(1.76)	(1.94)	(2.13)	(2.32)	(2.53)	(2.73)	(0.
50												
63												
80												
100	43.1	49.2	50.6	50.0	50.1	49.2	48.7	49.1	51.0	51.3	53.9	
125	50.5	56.3	57.0	57.6	56.2	52.1	51.8	54.0	53.7	54.2	53.6	
160	48.4	49.7	50.2	51.5	51.9	52.9	53.5	53.9	54.6	55.0	53.1	
200	47.1	47.9	49.3	51.0	52.6	54.6	54.4	55.6	55.5	55.9	54.2	
250	50.5	51.5	53.1	54.1	54.7	54.8	56.1	54.0	55.8	55.0	53.2	
315	51.9	53.2	54.1	55.6	55.4	54.8	56.0	55.6	55.0	55.1	52.0	
400	49.8	51.1	52.1	54.0	54.1	54.4	54.9	54.0	54.0	54.2	51.0	
500	48.2	49.3	50.7	52.4	53.2	54.1	55.0	55.4	54.2	53.5	49.8	
630	51.1	52.2	53.3	55.3	56.9	57.0	58.7	58.3	56.6	54.8	49.5	
800	50.9	52.0	53.5	55.5	55.5	57.2	58.0	57.9	56.7	55.1	48.7	
1000	49.3	51.4	52.1	55.1	56.2	57.9	59.4	59.8	58.8	55.9	47.6	
1250	50.7	51.5	54.0	56.5	58.3	60.2	61.8	61.3	60.3	56.2	47.8	
1600	55.7	56.6	58.8	63.1	65.4	68.0	68.6	66.6	65.4	61.2	50.6	
2000	56.2	57.1	59.1	63.2	65.9	67.9	68.6	67.2	65.6	61.1	51.1	
2500	52.3	54.5	56.9	61.1	63.9	66.5	66.7	65.2	63.9	58.5	47.7	
3150	52.7	55.2	57.3	61.9	64.5	66.7	68.1	67.1	66.7	58.9	49.2	
4000	51.9	54.4	56.6	61.4	64.2	66.7	69.1	67.8	65.1	58.5	48.5	
5000	49.7	50.6	54.8	58.7	61.2	65.2	67.0	67.2	63.2	56.8	46.8	
6300	45.2	48.1	51.5	56.1	59.4	63.5	65.0	64.4	61.2	52.3	41.9	
8000	42.7	46.5	49.2	55.2	57.5	61.5	62.9	62.4	59.6	50.5	38.9	
10000	40.6	44.0	47.0	54.3	56.5	59.9	61.3	61.3	58.9	48.9	35.8	
12500	37.0	40.7	44.9	50.9	54.0	56.5	58.3	59.3	56.0	46.1	29.4	
16000	30.4	34.0	39.0	45.2	48.9	51.3	53.3	53.5	49.2	37.0	19.4	
20000	24.4	28.2	33.5	40.3	43.8	46.6	48.9	48.5	44.0	29.8	7.0	
25000	14.7	20.0	24.9	31.9	35.8	38.0	39.6	38.9	33.0	15.9		
31500	0.8	8.2	14.4	23.2	26.2	28.6	28.4	26.0	18.0			
40000				5.6	6.6	10.7	10.0	4.4				
50000												
63000												
80000												
OVERALL CALCULATED	64.3	68.0	67.9	71.3	73.6	76.0	77.2	76.3	74.6	69.6	63.7	
PNDB	78.4	78.3	80.6	84.5	86.9	89.1	90.8	89.8	88.4	82.2	73.7	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 3 DAY 25 HR. 13.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. KJ)	100	68.1	71.4	72.4	72.7	73.1	73.2	74.4	74.7	78.7	83.3	87.4							112.3
VEHICLE R-55	125	75.3	78.9	76.1	75.2	74.6	74.2	77.9	80.2	81.0	83.6	87.1							116.0
CONFIG 75-1G	160	74.5	75.4	75.4	74.4	76.1	74.2	78.9	79.9	82.2	85.1	87.6							114.4
LOC SCHENECTADY	200	73.5	73.1	74.4	75.2	76.9	78.9	79.9	81.9	83.2	86.3	88.3							115.4
DATE 1/17/75	250	77.9	77.6	78.9	79.3	80.5	81.1	82.8	84.6	85.5	87.1	88.1							117.2
RUN 54/4	315	78.8	79.4	77.4	80.4	81.4	80.7	81.6	82.1	83.5	85.3	86.3							116.1
TAPE	400	77.1	77.4	77.4	78.7	78.9	79.4	80.6	81.9	82.7	84.3	86.1							115.1
BAR 29.7 HG	500	75.1	75.6	76.1	77.9	77.2	78.9	81.1	82.4	82.7	84.1	84.9							114.7
(100401. N/M2)	630	77.3	77.4	78.9	80.2	80.7	81.9	83.9	84.2	84.2	84.9	84.4							116.4
TAMB 43. DEG F	800	78.4	78.1	79.6	80.2	81.1	82.2	83.6	84.9	85.0	85.1	84.4							116.7
(279. DEG K)	1000	77.1	77.6	77.9	80.4	81.6	82.9	85.1	85.9	86.7	85.6	83.6							117.5
TRET 38. DEG F	1250	78.2	77.7	79.4	82.3	83.4	85.0	86.8	87.6	87.5	85.9	83.4							118.8
(276. DEG K)	1600	83.9	80.4	82.1	85.0	86.5	88.5	90.1	90.4	89.7	86.6	82.9							121.5
MACT 4.60 GM/M3	2000	87.0	86.0	88.5	90.1	93.2	95.3	98.1	98.9	94.2	93.4	89.6							129.2
(.00460 KG/M3)	2500	81.9	83.0	84.9	89.1	91.3	93.0	93.3	92.9	93.0	88.2	84.3							124.9
NFA 7811. RPM	3150	79.9	82.0	84.1	87.7	90.5	92.3	93.8	93.6	94.0	88.4	84.3							124.9
(818. RAD/SEC)	4000	81.9	82.7	85.3	90.4	91.5	94.5	96.7	97.3	96.9	91.4	86.3							127.7
NFK 7934. RPM	5000	78.3	78.9	81.9	86.1	88.7	91.2	94.2	93.7	92.8	89.1	84.0							124.6
(831. RAD/SEC)	6300	77.9	79.6	81.7	86.5	89.9	92.2	93.7	94.8	92.9	87.3	83.1							124.9
NFD 8823. RPM	8000	75.6	77.2	80.5	84.5	86.5	90.9	92.7	93.3	93.8	87.0	83.2							124.0
(924. RAD/SEC)	10000	75.1	76.5	79.8	85.3	87.7	91.2	93.3	94.8	94.6	88.3	83.3							125.0
NO. OF BLADES 15	12500	74.9	75.8	79.2	84.9	87.8	91.4	92.6	95.4	95.1	88.9	83.3							125.4
FAN TIP SPEED	16000	73.0	74.8	77.4	83.1	85.9	88.6	91.7	93.9	93.2	87.9	82.8							124.1
682. FT/SEC	20000	72.3	74.4	77.6	83.3	86.4	89.0	92.4	94.8	94.6	88.8	82.8							125.4
	25000	71.5	73.2	76.5	82.5	84.9	87.8	91.7	94.0	94.1	87.7	82.2							125.3
	31500	70.6	73.1	76.3	82.6	84.9	88.0	90.8	92.6	92.2	86.6	79.6							124.9
	40000	66.7	70.3	74.0	79.7	82.0	85.1	88.5	89.3	89.5	84.2	74.7							123.6
	50000	67.5	67.1	70.9	74.7	77.2	80.3	84.3	83.9	84.1	80.4	69.5							120.6
	63000	67.8	66.7	68.3	69.5	71.4	74.4	76.8	76.3	76.5	73.5	65.8							116.4
	80000	71.8	69.6	70.1	68.4	68.1	69.5	70.5	69.6	69.3	68.5	65.5							116.4
OVERALL MEASURED																			
OVERALL CALCULATED		92.9	93.6	95.2	99.0	101.0	103.5	105.6	106.6	106.3	101.9	99.6							137.7
	PNDB	106.1	106.9	108.2	111.6	113.7	116.1	116.0	116.6	116.4	114.2	111.7							

MODEL SOUND PRESSURE LEVELS (SPL, DEC, F, 70 PERCENT R L, NUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

		51. (.89)	61. (1.06)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.77)	0. (0.	0. (0.	0.)0.	0.)0.	0.)0.	0.)0.	0.)0.
	FREQ.																		
	50																		
	63																		
SIDELINE 200. FT.	80																		
(60.96 M)	100	44.4	48.7	50.3	51.0	51.5	52.2	52.2	51.6	54.3	56.8	57.3							
VEHICLE R-SS	125	51.5	54.1	54.0	54.4	55.0	55.1	55.6	57.0	56.4	58.9	56.9							
CONFIG 75-1C	160	50.7	52.5	53.2	54.6	54.4	54.3	56.5	56.7	57.6	58.3	57.1							
LOC SCHENECTADY	200	49.6	50.1	52.1	53.2	55.1	56.9	57.4	58.6	58.5	59.4	57.7							
DATE 1/17/75	250	53.7	54.5	56.5	57.9	58.7	59.1	60.1	61.2	60.6	60.0	57.2							
RUN 54/4	315	54.6	54.2	56.9	58.3	58.4	58.5	59.0	58.6	58.5	58.1	55.3							
TAPE	400	52.8	54.1	54.8	56.5	56.8	57.2	57.9	58.3	57.6	56.9	54.8							
BAR 29.7 HG	500	50.7	52.3	53.5	55.7	55.7	56.6	58.3	58.7	57.5	56.5	53.3							
(1004Cl. N/M2)	630	51.3	51.9	56.1	57.6	58.7	59.5	60.9	60.3	58.9	57.1	52.5							
TAMB 43. DEG F	800	51.7	54.5	55.7	57.7	58.6	59.7	60.6	60.9	59.4	57.1	52.2							
(279. DEG K)	1000	52.3	53.9	54.8	57.9	59.2	60.3	61.9	61.8	61.0	57.4	51.1							
TRET 39. DEG F	1250	53.2	53.7	56.2	59.5	60.5	62.2	63.5	63.3	61.6	57.4	50.5							
(276. DEG K)	1600	55.7	56.3	58.8	62.1	63.7	65.5	66.6	65.9	63.6	57.9	49.6							
HACT 4.60 GM/M3	2000	61.7	63.6	65.1	69.0	70.3	72.1	74.4	74.2	71.9	64.3	55.9							
(.0040 KG/M3)	2500	56.3	58.5	61.2	65.9	68.1	69.7	69.4	67.9	66.4	58.8	50.2							
NFA 7811. RPM	3150	53.9	57.2	60.1	64.1	67.1	68.7	69.6	68.3	67.0	58.6	49.4							
(818. RAD/SEC)	4000	55.3	57.4	60.9	65.4	67.9	70.5	72.1	71.5	69.3	60.9	52.3							
NFK 7934. RPM	5000	51.5	53.4	57.1	61.9	64.7	67.7	69.3	67.7	65.0	59.1	47.3							
(831. RAD/SEC)	6300	50.2	53.4	56.3	61.6	65.1	67.2	68.0	67.9	64.0	55.0	44.6							
NFD 8823. RPM	8000	46.4	49.6	53.9	58.5	61.0	64.8	65.9	65.1	63.4	52.8	41.9							
(924. RAD/SEC)	10000	44.1	47.2	51.6	57.5	60.3	63.6	64.8	64.8	62.1	51.4	38.1							
NO. OF BLADES 15	12500	41.0	43.9	48.7	55.1	59.3	61.5	61.8	62.8	59.5	48.1	32.4							
FAN TIP SPEED	16000	34.4	38.8	43.0	49.7	52.4	55.1	57.0	57.0	52.5	39.7	22.2							
682. FT/SEC	20000	27.6	33.0	38.2	45.1	48.5	50.8	52.6	52.2	47.3	33.0	10.0							
	25000	18.2	24.0	29.9	37.4	40.3	42.5	44.6	43.4	37.3	19.9								
	31500	4.6	12.5	19.1	27.5	30.2	32.6	32.2	30.0	21.5	1.0								
	40000			1.2	9.6	12.6	14.7	14.7	9.1										
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		67.2	69.0	71.0	74.8	76.7	78.7	80.0	79.5	77.4	71.6	67.0							
PNDB		80.4	82.3	84.3	88.1	90.1	92.2	93.6	93.0	91.0	84.3	76.9							

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 25 HR. 13.7

MODEL SIDE STATIC PRESSURE LEVELS (59. DEG. F. 70 PERCENT R. H., MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	33. (0.58)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	69.5	71.1	72.4	72.7	73.4	74.2	74.1	74.7	78.7	83.3	87.4							112.3
VEHICLE F-55	125	75.5	77.4	75.1	74.4	74.9	77.4	79.1	80.7	81.7	84.1	87.6							114.5
CONFIG 75-10	160	74.5	75.4	75.1	74.4	74.4	75.2	78.4	80.4	82.6	84.3	87.1							114.1
LOC SCHENECTADY	200	73.8	73.4	74.1	75.7	77.6	79.6	80.4	81.9	83.0	86.1	88.3							115.4
DATE 1/17/75	250	77.8	78.1	79.9	80.4	80.6	81.1	83.1	84.4	85.5	86.8	89.1							117.2
R/N 54/5	315	77.6	79.1	79.4	80.2	80.6	80.7	81.3	82.1	83.2	85.3	86.6							116.0
TAPE	400	77.3	77.4	77.4	78.9	79.1	79.7	80.9	81.6	82.7	84.9	85.8							115.2
BAR 29.7 HG	500	75.6	75.4	76.1	77.4	78.1	79.2	80.6	81.9	82.7	84.6	84.6							114.6
(00401. N/M2)	630	77.6	77.4	78.9	80.7	81.2	81.9	83.9	84.4	84.0	84.8	84.6							116.5
TAMB 42. DEG F	800	78.5	78.6	78.9	80.4	81.1	82.4	83.6	84.4	85.8	85.1	84.1							118.7
(279. DEG K)	1000	77.6	77.6	78.1	80.4	81.4	82.7	84.6	85.6	86.2	84.8	82.8							117.1
T-ET 38. DEG F	1250	78.4	77.9	79.4	81.2	83.2	85.0	87.1	87.4	87.5	86.1	83.4							118.8
(276. DEG K)	1600	81.2	80.7	82.1	85.3	86.5	86.5	90.3	90.1	89.5	84.4	82.4							121.4
HACT 4.89 GM/M3	2000	87.7	84.3	86.9	90.6	93.2	95.7	97.6	99.1	97.7	93.6	89.4							129.2
(.00489 KG/M3)	2500	81.9	83.8	84.6	89.4	91.5	93.0	93.6	93.1	93.2	87.9	84.3							125.8
NFA 7406. RPM	3150	79.7	82.3	83.3	87.6	90.3	92.0	94.3	93.8	93.7	88.4	84.3							125.0
(817. RAD/SEC)	4000	81.4	83.2	85.3	89.1	92.5	94.7	96.7	97.5	96.9	91.9	88.3							127.9
NFK 7937. RPM	5000	79.1	78.9	81.2	85.4	89.0	92.2	93.6	93.9	92.9	88.1	83.7							124.5
(831. RAD/SEC)	6300	78.2	79.7	81.5	86.5	90.1	92.2	93.9	94.8	92.9	87.5	83.0							124.9
NFD 8423. RPM	8000	75.3	76.9	79.5	84.5	87.3	90.8	92.7	93.5	92.7	87.2	82.4							123.8
(924. RAD/SEC)	10000	74.7	76.8	80.0	85.4	87.9	91.2	93.5	95.0	94.4	88.2	83.1							125.1
NO. OF BLADES 15	12500	74.8	75.7	79.2	84.6	87.3	91.6	93.1	95.6	94.6	88.6	83.0							125.4
FAN TIP SPEED	16000	72.4	74.4	76.8	82.5	85.7	88.5	91.9	93.9	93.1	87.2	82.2							124.8
681. FT/SEC	20000	72.4	73.8	77.3	83.2	86.1	88.9	92.6	94.7	93.8	88.2	82.7							125.2
	25000	71.5	72.9	76.5	82.5	85.4	88.0	91.0	94.0	93.9	88.0	81.7							125.2
	31500	72.8	73.1	76.2	82.6	85.0	88.2	90.0	92.3	92.0	86.3	79.6							124.8
	40000	68.7	70.1	74.0	79.5	82.5	85.1	88.0	89.6	88.8	84.0	74.7							123.4
	50000	67.6	67.0	70.5	75.0	77.3	80.4	84.1	83.8	84.2	79.9	69.8							120.5
	63000	68.8	66.2	68.7	69.9	71.1	74.3	77.2	76.5	76.7	73.4	65.5							116.8
	80000	72.1	70.1	70.4	68.9	69.4	69.5	70.2	70.1	69.5	66.3	65.8							116.7
OVERALL MEASURED																			
OVERALL CALCULATED		93.0	93.7	95.1	99.0	101.2	103.6	105.6	106.7	106.8	101.8	99.5							137.7
	PNOR	106.4	107.0	108.2	111.7	114.1	116.2	118.0	118.7	118.2	114.4	111.6							

MODEL SOUND PRESSURE LEVELS (80. DEG. F. 70 PERCENT R.H. MUN. BAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	166. (2.73)	0. (0.	0. (0.	0. 0.	0. 0.	0. 0.	0. 0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.9	48.4	50.3	91.0	51.4	52.4	51.9	51.6	54.3	56.8	57.3						
VEHICLE R-55	125	51.6	54.6	54.0	54.5	55.2	55.6	54.8	57.5	57.2	57.4	57.4						
CONFIG 75-16	160	50.7	52.5	52.9	54.6	54.6	54.3	56.0	57.2	57.3	57.5	56.8						
LOC SCHENECTADY	200	49.8	50.4	51.8	53.7	55.4	57.7	57.9	58.6	58.2	59.1	57.7						
DATE 1/17/75	250	51.7	55.3	56.5	58.4	58.7	59.1	60.8	61.0	60.6	59.7	57.2						
RUN 54/5	315	54.9	58.2	56.9	58.1	58.7	58.5	58.7	58.6	58.2	58.1	55.5						
TAPE	400	53.0	54.1	55.1	56.7	57.1	57.4	58.1	58.0	57.6	57.4	54.5						
BAR 29.7 HG	500	51.2	52.8	53.5	55.2	56.0	56.9	57.8	58.2	57.5	57.0	53.0						
(100471. N/M2)	630	53.1	53.8	54.1	54.3	53.9	59.5	60.9	60.5	58.4	57.1	52.8						
TAMB 42. DEG F	800	53.9	55.8	56.0	54.3	54.4	59.9	60.5	60.4	59.4	57.1	52.0						
(279. DEG K)	1000	52.8	53.9	55.1	57.4	59.9	60.0	61.4	61.5	60.5	58.7	56.4						
TAET 38. DEG F	1250	53.4	54.0	56.2	58.5	61.3	62.2	63.8	63.1	61.6	57.7	56.5						
(276. DEG K)	1600	55.0	56.6	58.8	62.4	63.7	65.5	66.8	65.6	63.4	57.7	49.1						
HACT 4.69 GM/M3	2000	62.2	63.6	65.3	69.5	70.3	72.6	73.9	74.4	71.4	64.6	55.6						
(.00489 KG/M3)	2500	56.2	58.5	60.9	66.1	68.4	69.7	69.7	68.2	66.6	58.5	50.1						
NFA 7886. RPM	3150	53.6	57.1	59.3	64.1	66.9	68.4	70.1	68.6	66.7	58.5	49.4						
(817. RAD/SEC)	4000	54.8	57.9	60.8	65.2	68.7	70.7	72.1	71.8	69.3	61.3	52.3						
NFK 7937. RPM	5000	51.2	53.3	56.5	61.6	64.9	67.9	68.8	67.9	64.9	57.0	47.1						
(831. RAD/SEC)	6300	50.4	53.4	56.0	61.6	65.3	67.2	68.3	67.9	64.0	55.2	44.6						
NFD 8423. RPM	8000	46.1	49.3	52.9	58.5	61.4	64.7	65.9	65.3	62.3	53.8	41.1						
(924. RAD/SEC)	10000	43.8	47.4	51.9	58.0	60.5	63.8	65.0	65.0	61.8	51.3	37.9						
NO. OF BLADES 15	12500	42.9	43.9	48.6	54.9	57.7	61.7	62.3	63.0	58.8	47.9	32.1						
FAN TIP SPEED	16000	33.9	38.4	42.4	49.1	52.6	55.0	57.2	57.0	52.4	39.8	21.9						
681. FT/SEC	20000	27.8	32.4	37.9	45.0	48.2	50.8	52.8	52.2	46.4	32.5	9.9						
	25000	19.2	23.7	29.9	37.4	40.8	42.8	43.9	43.4	37.8	20.1							
	31500	4.8	12.4	19.1	27.4	30.4	32.8	32.2	29.8	21.2	0.7							
	40000			1.2	9.3	13.1	15.8	14.2	9.4									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		67.4	69.0	71.0	74.9	76.9	78.9	80.6	79.7	77.2	71.8	67.8						
PNDB		98.6	82.3	84.3	88.3	93.5	92.4	93.6	93.2	90.9	84.4	76.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 25 HR. 13.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. — L. MUM. BAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	74.7	76.4	80.4	82.7	82.1	81.2	78.1	72.7	72.0	74.1	77.6							113.4
VEHICLE R-55	125	67.2	68.2	70.4	68.7	69.1	67.4	67.9	72.4	71.2	72.3	75.1							104.5
CONFIG 75-16	160	55.2	66.4	66.2	68.4	68.4	68.2	69.8	71.2	72.5	73.6	75.8							104.4
LOC SCHENECTADY	200	64.9	63.7	65.1	67.4	68.6	69.9	70.6	73.6	73.0	75.6	76.8							105.4
DATE 1/17/75	250	66.2	67.4	68.9	69.9	70.1	70.1	71.4	72.9	72.5	74.3	75.3							105.5
RUN 54/6	315	69.7	70.4	70.6	71.4	71.4	71.4	71.8	73.4	72.5	74.3	75.1							106.2
TAPE	400	67.5	68.4	68.6	69.7	69.9	70.9	71.6	72.6	72.2	73.6	74.1							105.3
BAR 29.7 HG	500	66.5	67.4	68.1	69.2	69.6	70.7	71.6	73.2	73.5	74.1	73.9							105.4
(99401. N/M2)	630	70.6	70.7	72.2	72.7	73.4	74.2	75.9	78.7	76.2	76.8	74.1							109.0
TAMB 43. DEG F	800	72.8	72.9	73.9	72.4	72.6	73.9	75.6	79.9	77.2	77.6	74.4							109.4
(279. DEG K)	1000	69.6	69.9	70.1	72.4	73.4	75.4	77.8	81.4	80.2	80.6	74.9							111.1
TWET 38. DEG F	1250	76.8	76.2	76.1	79.9	81.2	84.5	85.6	86.4	86.7	87.6	79.9							117.9
(276. DEG K)	1600	75.1	75.2	75.6	79.5	80.2	82.0	84.1	84.9	84.2	84.1	77.8							115.9
HACT 4.60 GM/M3	2000	74.1	74.0	75.4	79.9	80.2	82.5	83.6	84.4	83.5	83.4	78.1							115.6
(.00400 KG/M3)	2500	74.4	75.8	77.1	80.1	83.5	85.0	86.8	88.1	90.0	87.7	82.1							119.6
NFA 5405. RPM	3150	71.9	74.8	75.1	78.9	82.3	84.3	85.5	86.3	87.5	85.7	79.8							117.7
(572. RAD/SEC)	4000	71.6	73.0	74.1	77.6	80.8	84.0	86.2	87.0	87.2	84.9	78.5							117.7
NFK 5551. RPM	5000	68.0	68.7	70.8	74.6	78.2	81.2	84.2	84.7	84.9	82.3	76.2							115.3
(581. RAD/SEC)	6300	65.9	67.3	69.0	73.3	76.1	80.2	83.2	83.5	83.9	80.9	75.1							114.1
NFD 8823. RPM	8000	64.3	67.0	68.0	72.3	75.3	79.4	81.5	82.3	83.0	79.7	74.4							113.1
(924. RAD/SEC)	10000	64.1	65.8	67.6	72.1	74.2	79.2	81.5	84.0	85.4	80.8	74.8							114.5
NO. OF BLADES 15	12500	64.1	65.1	66.7	71.7	75.8	78.1	80.4	83.4	84.9	80.9	74.8							114.1
FAN TIP SPEED	16000	62.1	63.3	65.1	70.1	74.3	76.8	79.2	82.4	83.4	79.2	73.5							113.1
477. FT/SEC	20000	61.4	62.5	64.1	69.4	73.7	76.8	78.9	81.8	83.6	79.8	73.3							113.5
	25000	60.7	61.2	62.2	68.3	71.4	74.9	76.7	79.8	80.9	77.2	70.2							111.5
	31500	59.4	60.4	62.3	70.1	72.8	75.2	76.8	78.8	80.2	76.3	68.9							112.2
	40000	58.9	58.9	60.7	68.0	70.5	72.6	75.2	76.3	77.8	74.0	64.9							111.1
	50000	59.5	58.4	60.4	66.9	67.0	69.1	70.8	71.2	71.8	70.8	63.2							108.8
	63000	60.5	58.5	60.5	67.2	66.7	68.1	67.6	67.3	66.8	66.8	63.3							109.8
	80000	62.9	62.9	60.7	67.9	67.6	68.2	68.5	67.6	66.3	66.7	65.5							113.6
OVERALL MEASURED																			
OVERALL CALCULATED		84.6	85.4	86.7	89.8	91.7	94.0	95.5	96.8	97.4	95.7	90.8							120.3
	PWL	96.6	97.8	99.0	101.9	104.5	106.9	108.3	109.4	110.3	108.6	103.7							

OC PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 25 HR. 13.7

MODEL SUPER PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (ARP RADIANS

		53. (0.92)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.
FREQ.	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	51.0	51.7	58.3	51.9	62.5	59.4	55.9	49.6	47.5	49.5	47.5						
VEHICLE B-58	125	43.5	45.4	48.2	48.9	47.5	49.6	48.4	49.3	46.7	45.7	46.9						
CONFIG 75-1C	160	41.4	43.5	43.9	46.4	45.5	44.3	47.2	47.9	47.8	47.0	45.1						
LOC SCHENECTADY	200	43.0	43.7	42.4	45.5	45.9	47.2	48.2	50.3	48.2	48.6	46.2						
DATE 1/17/75	250	42.1	44.3	46.5	47.9	48.2	48.1	49.1	49.5	47.6	47.2	44.5						
RUN 54,6	315	45.6	47.3	49.1	49.3	49.4	49.3	49.2	49.9	47.5	47.1	44.0						
TAPE	400	43.2	45.2	46.1	47.5	47.8	48.7	48.9	49.0	47.1	44.2	42.8						
BAR 29.7 IN	500	42.1	44.1	45.5	46.9	47.5	48.4	48.8	49.4	48.2	46.5	42.3						
(36401. N/M2)	630	44.5	47.2	49.4	50.3	51.2	51.8	52.9	54.8	50.9	49.1	42.3						
TAMB 43. DEG F	800	46.1	47.3	48.0	50.9	50.1	51.4	52.5	55.9	51.7	49.6	42.2						
(279. DEG K)	1000	44.7	46.2	47.1	48.9	50.0	52.0	54.4	57.3	54.5	52.4	42.4						
TWET 36. DEG F	1250	51.8	52.3	53.0	57.9	58.5	61.7	62.3	62.1	60.8	59.2	47.8						
(276. DEG K)	1600	49.9	51.1	52.3	55.4	57.4	59.0	60.4	60.4	58.1	55.4	44.3						
HACT 4.80 GM/M3	2000	48.7	49.7	51.0	54.2	57.3	59.4	59.9	59.7	57.1	54.3	44.4						
(.00468 KG/M3)	2500	48.7	51.3	53.4	56.9	62.4	62.7	62.9	63.2	63.4	54.3	47.9						
NFA 5465. RPM	3150	45.9	50.0	51.1	55.4	58.9	60.7	61.4	61.1	60.5	54.4	44.9						
(572. RAD/SEC)	4000	45.0	47.7	49.6	53.7	54.7	60.0	61.6	61.3	59.6	54.3	42.5						
NFK 5551. RPM	5000	41.2	43.2	44.1	50.4	54.2	56.7	59.3	58.7	57.0	51.3	39.6						
(581. RAD/SEC)	6300	38.1	40.9	43.5	48.3	51.4	55.2	57.5	56.7	55.0	47.8	36.6						
NFD 2823. RPM	8000	35.1	39.4	41.4	44.0	49.5	53.1	54.7	54.1	52.4	44.5	33.1						
(823. RAD/SEC)	10000	33.0	38.5	39.4	44.3	46.6	51.5	53.1	54.1	52.9	43.9	29.6						
NO. OF BLADES 15	12500	30.2	33.2	36.2	41.9	46.3	48.3	49.6	50.8	49.2	40.1	23.0						
FAN TIP SPEED	16000	23.6	27.3	30.8	36.7	41.2	43.3	44.5	45.5	42.7	32.8	13.2						
427. FT/SEC	20000	16.8	21.0	24.7	31.3	35.8	38.4	39.1	39.2	38.5	24.0	0.5						
	25000	7.4	12.3	15.6	23.2	26.5	28.8	29.6	28.4	24.0	0.4							
	31500			5.2	15.9	18.2	19.9	18.9	16.3	0.5								
	40000					1.1	8.2	1.5										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		99.4	61.2	63.5	66.6	68.3	70.1	70.8	70.8	69.5	65.8	57.3						
PNDB		78.6	73.0	74.9	78.4	81.2	83.3	84.0	84.2	83.3	78.9	69.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 29 HR. 13.1

OCTAVE SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT R.H. MUN. BAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS

FREQ.	55. (.96)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	159. (2.78)	0.	0°	0°	0°	0°	0°	0°	PWL
50 HZ	72.0	74.2	77.2	77.5	76.3	77.1	73.0	69.0	72.0	74.9	76.0								109.8
100	69.7	69.9	71.7	72.2	70.3	67.9	62.5	71.5	72.0	71.5	74.7								104.5
150	64.7	65.7	65.2	66.7	66.4	64.9	69.0	70.5	72.0	73.8	75.4								103.7
200	64.0	64.3	65.2	66.5	67.9	69.4	70.7	72.2	72.7	74.5	76.9								104.7
250	67.3	68.7	68.6	69.5	70.0	70.4	71.6	72.2	73.2	73.5	75.1								105.2
315	69.5	71.2	73.7	71.7	72.1	72.2	72.3	72.3	73.0	74.0	75.2								106.3
400	67.3	69.2	68.4	69.7	69.6	70.9	71.3	71.8	72.5	73.5	74.4								105.8
500	66.5	68.2	67.9	68.1	69.6	70.9	72.0	73.3	74.2	74.3	74.2								105.5
630	70.6	71.5	71.9	73.0	74.1	75.2	76.5	76.5	74.7	76.3	76.4								108.8
800	73.4	71.7	70.4	72.5	72.8	74.5	75.3	74.8	77.2	77.5	75.2								108.7
1000	67.8	70.7	69.7	72.3	73.5	76.2	77.2	80.0	81.0	80.5	75.7								110.9
1250	75.4	75.5	75.7	79.4	81.9	84.2	85.5	86.3	86.7	87.1	80.7								117.6
1600	72.4	74.2	74.4	76.9	79.7	81.7	83.9	83.5	83.5	83.6	76.9								114.8
2000	71.6	74.8	74.9	77.8	77.7	81.7	82.7	83.0	82.5	82.9	76.4								114.9
2500	71.8	75.6	75.1	79.5	81.4	84.7	85.7	86.4	87.2	84.6	80.1								117.5
3150	67.7	72.5	70.6	74.4	77.6	80.4	81.9	83.4	83.4	82.8	75.8								113.8
4000	69.4	73.9	72.2	76.1	79.3	82.9	83.5	84.0	85.1	83.4	77.5								115.5
5000	67.1	73.6	70.4	74.8	78.5	82.3	83.7	85.2	85.8	82.6	76.6								115.4
6300	66.8	74.8	71.8	74.1	77.9	81.9	84.1	84.7	85.4	83.8	77.4								115.5
8000	69.6	74.9	69.4	73.4	77.1	81.0	82.5	84.0	84.2	82.9	76.4								114.9
10000	66.0	74.5	69.0	74.1	77.6	81.7	82.0	84.0	87.1	83.2	77.2								116.1
12500	64.7	74.7	67.7	72.2	76.7	80.1	81.9	84.5	85.4	81.9	76.2								115.1
16000	62.2	75.4	65.2	70.8	74.1	77.2	79.3	82.2	83.1	79.4	73.6								113.1
20000	61.2	74.3	64.5	70.3	74.1	77.9	79.1	82.5	83.7	79.6	73.5								113.7
25000	59.2	75.8	62.1	68.8	71.1	75.1	76.3	79.0	79.8	76.9	70.3								111.4
31500	59.0	72.4	61.8	67.5	71.7	75.3	76.3	78.8	78.9	76.1	68.7								111.7
40000	56.9	69.4	59.6	62.7	64.5	69.5	71.9	73.5	75.1	72.1	62.2								108.6
50000	55.5	67.6	57.4	60.1	61.9	65.2	67.7	68.1	69.2	67.8	57.5								105.7
63000	55.4	71.1	55.9	55.5	56.5	59.0	60.6	60.4	61.1	60.1	53.6								105.4
A0000	57.2	65.3	55.4	54.3	54.6	55.1	55.0	55.1	54.8	54.5	52.1								104.5
OVERALL MEASURED																			
OVERALL CALCULATED	83.6	87.7	85.5	88.3	98.5	93.5	94.8	96.1	96.8	95.8	90.5								127.4
PNCB	84.9	90.5	87.7	100.8	133.3	106.2	107.3	108.1	108.8	107.1	102.9								

RADIAL 17. FT.
VEHICLE
CONFIG 75-14
LOC SPHERICITY
DATE 1/17/75
RUN 5571
TAPE
BAR 30.2 IN
(0.1890 PSI)
TAMB 30. DEG F
(272. DEG K)
TWET 21. DEG F
(267. DEG K)
HACT 0.42 GM/M3
(0.00342 LB/M3)
NFA 5361. RPM
(561. RAD/SEC)
NFK 5517. RPM
(578. RAD/SEC)
NFD 8813. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
468. FT/SEC

MODEL SOUND PRESSURE LEVELS (REF. P. 70 PERCENT O.L. NUM. DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 200. FT.	50																	
(60.96 M)	100	48.3	51.5	55.1	56.8	56.7	55.4	50.8	45.9	47.5	47.5	46.9						
VEHICLE R-59	125	46.3	48.1	49.5	48.5	49.7	48.1	45.2	48.4	47.4	46.8	46.4						
CONFIG 75-1H	150	45.9	42.5	42.9	44.9	44.8	45.3	46.7	47.3	47.3	47.8	45.8						
LOC SCHENECTADY	238	49.3	42.8	42.8	44.5	45.5	47.6	47.8	48.9	48.8	47.8	46.2						
DATE 1/17/75	250	42.9	45.6	46.3	47.5	48.2	48.3	48.5	48.8	48.3	48.4	44.3						
RUN 55/1	315	45.3	48.9	48.2	49.5	51.1	50.9	49.7	48.7	48.0	48.8	44.1						
TAPE	400	43.8	45.9	45.8	47.5	47.5	48.7	48.6	48.1	47.4	44.1	43.1						
BAR 28.2 IN	500	42.2	44.8	45.2	48.5	47.4	49.6	49.2	49.5	49.0	46.7	42.8						
(6169. N/M2)	630	44.1	48.0	49.1	50.7	51.9	53.4	53.4	52.7	51.4	48.5	42.8						
TAMB 39. DEG F	800	45.2	48.1	47.5	50.9	50.5	51.9	52.2	52.8	51.7	49.6	43.8						
(277. DEG K)	1000	45.0	46.9	48.4	49.7	51.4	53.3	54.6	54.9	55.3	52.8	43.2						
TRET 21. DEG F	1250	50.4	51.6	52.5	54.8	56.3	61.4	62.2	62.0	60.8	56.6	47.9						
(267. DEG K)	1600	47.4	50.1	51.1	53.9	56.0	60.8	60.5	60.0	57.4	54.0	43.7						
HACT 0.42 GM/MS	2000	45.2	49.4	51.4	54.5	56.7	59.6	59.0	58.3	56.1	53.8	44.7						
(.00042 KG/M3)	2500	46.2	50.5	51.4	55.4	58.3	61.4	61.8	61.5	60.0	55.2	45.9						
NFA 5381. RPM	3150	41.3	47.6	48.5	50.8	54.2	56.9	57.7	58.1	56.4	50.9	40.9						
(561. RAT/SEC)	4000	42.9	48.6	47.7	52.1	55.5	56.8	58.0	58.3	57.5	52.9	41.5						
NFR 5517. RPM	5030	40.3	44.0	45.7	50.6	54.7	57.8	58.8	59.1	57.1	51.6	40.8						
(578. RAT/SEC)	6300	39.1	44.4	45.5	49.2	53.9	57.9	58.5	57.8	56.5	50.7	39.8						
NF3 8023. RPM	8030	38.5	47.2	42.9	47.4	51.3	54.9	55.7	55.9	54.8	48.7	38.1						
(824. RAT/SEC)	10000	34.9	47.2	40.6	46.6	50.4	54.1	54.5	54.9	54.4	46.5	32.8						
NO. OF BLADES 18	12500	30.8	42.9	37.1	42.4	47.2	50.3	51.8	51.9	49.8	41.1	28.3						
FAN TIP SPEED	16000	23.6	39.4	30.8	36.6	41.8	43.7	44.6	45.3	42.5	32.2	13.3						
468. FT/SEC	20000	16.6	32.6	25.1	32.9	36.2	38.6	38.3	39.9	36.4	23.9	0.7						
	25000	9.9	24.6	19.5	28.9	28.5	28.5	29.2	28.4	23.8	9.1							
	31500		11.8	4.5	13.7	17.3	10.8	10.5	10.3	8.2								
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		57.8	61.8	62.1	65.8	67.2	69.4	68.9	69.7	68.5	64.8	57.8						
MEAS		60.8	73.6	73.8	77.3	80.8	82.6	83.1	82.9	81.8	77.3	68.2						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 25 NO. 13.2

NOISE SPECTRA OF SOURCE LEVELS (SPL) IN DECIBELS FOR 150. DEG. F. 70 PERCENT R.H. MUK. DAY1
ANGLES FROM INLET IN DEGREES (ARP ANGLES)

	PROG.	32. (0.81)	63. (1.60)	71. (1.80)	81. (2.06)	91. (2.31)	101. (2.56)	111. (2.82)	122. (3.10)	133. (3.38)	143. (3.63)	153. (3.89)	0.	0.	0.	0.	0.	0.	PWL
	32																		
	63																		
RADIAL 17. FT.	80																		
SL RI	100	75.3	75.4	73.4	75.9	75.4	71.7	68.4	69.4	72.7	74.6	80.4							100.0
VEHICLE BOSS	125	69.9	74.9	77.9	72.6	72.1	76.7	73.4	73.9	74.7	74.8	79.4							107.5
CENTIG 75-1M	160	69.9	69.4	69.9	76.7	75.4	79.4	72.4	74.2	76.8	78.6	80.1							107.9
LNC SCHEDULED	200	69.3	69.1	69.9	76.7	71.4	73.2	74.4	76.2	77.6	79.3	80.6							100.9
DATE 1/17/75	250	73.5	71.4	71.9	72.7	73.1	73.9	74.9	75.9	76.2	77.8	79.3							108.8
RUN 552	315	72.6	73.6	73.9	74.8	74.8	75.2	75.8	75.7	76.5	74.1	79.4							109.8
TAPE	400	73.6	71.1	71.4	72.7	73.4	73.7	74.8	75.4	76.6	77.4	78.1							108.4
BAR 30.2 MB	500	69.4	69.9	70.4	71.5	72.4	74.8	75.4	76.4	77.8	77.9	77.8							108.8
(81890. N/M2)	630	73.2	72.9	74.7	75.5	76.7	77.7	78.1	79.4	79.5	79.1	77.8							111.5
TAMB 70. DEG F	800	77.2	77.7	77.4	74.5	75.7	77.9	78.4	78.7	80.0	78.9	77.4							111.1
(272. DEG K)	1000	71.2	73.4	72.4	74.5	78.2	78.5	80.4	82.2	83.2	82.4	77.4							113.1
TWCY 21. DEG F	1250	73.4	73.7	74.9	76.3	79.7	81.5	83.9	84.4	85.8	84.6	78.9							115.7
(257. DEG K)	1600	80.2	80.2	81.6	85.7	87.2	89.8	89.8	89.2	91.8	91.2	83.4							121.9
HACT 0.42 GM/M3	2000	75.9	76.8	77.6	80.1	82.2	84.5	85.8	86.1	86.8	85.1	80.4							117.4
(.00042 KG/M3)	2500	72.8	74.2	76.4	78.5	82.2	84.5	85.8	86.1	86.7	83.4	78.3							117.2
MFA 6131. GPM	3150	74.4	75.7	77.8	80.4	83.2	85.5	87.2	88.5	88.4	83.1	80.8							119.8
(642. MM/SEC)	4000	78.5	77.6	78.2	79.3	82.4	85.6	85.4	85.9	86.1	83.3	79.2							117.2
MFA 6310. GPM	5000	71.4	72.3	74.4	79.9	82.6	85.5	87.3	88.1	88.5	85.2	79.1							118.7
(691. MM/SEC)	6300	74.9	72.8	74.5	79.5	82.4	85.8	87.2	88.8	89.4	85.3	79.9							119.1
MFA 6823. GPM	8000	69.8	72.1	73.8	78.4	81.2	84.5	87.1	88.2	88.9	84.9	79.8							118.7
(820. MM/SEC)	10000	69.3	71.3	73.8	79.5	82.4	84.9	87.5	88.5	89.2	85.3	80.6							119.8
NO. OF BLADES 18	12500	69.1	70.2	72.4	78.1	81.6	83.1	86.4	89.2	89.8	84.5	79.2							119.1
FAN TIP SPEED	16000	65.2	67.1	68.9	75.9	77.7	80.5	83.4	84.4	86.7	81.5	76.8							118.8
535. FT/SEC	20000	65.6	66.7	69.8	75.5	78.1	81.8	83.5	86.6	86.3	82.9	77.2							117.8
	25000	63.8	65.3	67.1	73.8	75.4	78.3	80.9	84.8	84.8	80.8	74.8							115.8
	31500	62.3	64.3	66.3	73.3	75.7	78.8	80.6	83.5	83.7	78.9	72.2							115.9
	40000	63.9	62.1	63.1	68.4	73.5	73.5	76.5	78.6	78.4	76.2	68.9							112.7
	50000	61.6	61.3	62.6	64.5	67.8	69.7	72.8	73.7	73.7	71.1	62.8							108.7
	63000	63.8	61.5	62.7	62.5	62.6	64.9	66.8	66.8	66.1	64.9	59.8							107.8
	80000	64.3	64.2	64.9	62.5	62.7	63.4	63.8	63.8	61.9	62.4	61.3							110.6
OVERALL MEASURED																			
OVERALL CALCULATED		86.7	87.3	88.5	91.8	94.2	96.9	98.2	99.5	100.2	97.5	93.3							120.7
	DATA	98.7	99.5	100.8	104.8	130.5	108.7	110.2	111.2	112.8	108.5	105.8							

DC PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 25 HR. 13.2

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R L. MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	52.6	52.7	51.3	54.2	53.8	49.9	46.2	46.3	48.3	50.0	50.3						
VEHICLE R=55	125	45.5	48.1	50.7	50.7	50.5	48.9	48.1	50.8	50.2	49.9	49.1						
CONFIG 75-1H	160	45.9	46.5	47.7	48.8	49.7	48.5	50.3	50.9	51.3	51.9	49.7						
LOC SCHENECTADY	200	45.1	46.2	47.6	48.7	49.6	51.2	51.9	52.8	52.2	52.4	49.9						
DATE 1/17/75	250	46.5	48.3	49.5	50.7	51.2	51.9	52.3	52.5	51.4	50.7	48.5						
RUN 55/2	315	48.4	50.3	51.4	52.3	52.7	53.0	53.0	52.1	51.5	50.8	48.3						
TAPE	400	46.3	47.9	48.8	50.5	50.6	51.5	51.9	51.8	50.9	49.9	46.8						
BAR 30.2 HG	500	45.0	46.5	47.7	49.2	50.3	51.4	52.6	52.7	51.8	50.3	48.1						
(0169. N/M2)	630	48.6	49.4	51.0	53.1	54.4	55.3	56.2	55.6	54.1	51.4	45.8						
TAMB 30. DEG F	800	48.5	50.0	50.5	52.0	53.3	54.4	55.3	54.7	54.5	51.9	45.2						
(272. DEG K)	1000	46.3	48.6	49.4	51.9	53.7	55.5	57.2	58.0	57.5	54.2	44.9						
THET 21. DEG F	1250	48.4	49.8	51.7	55.3	57.1	58.7	60.5	60.1	59.1	56.2	46.1						
(267. DEG K)	1600	55.0	56.1	58.3	62.4	64.5	66.1	66.3	64.7	64.9	62.4	50.1						
HACT 0.42 GM/M3	2000	49.7	51.6	54.1	57.8	59.3	61.4	62.1	61.4	59.6	56.1	46.6						
(.00042 KG/M3)	2500	47.2	49.7	52.6	56.6	59.1	61.2	61.9	61.2	60.1	54.0	44.1						
NFA 6131. RPM	3150	48.3	50.8	53.0	57.0	59.8	61.9	63.0	63.3	62.4	59.5	45.1						
(642. RAD/SEC)	4000	44.0	47.3	49.7	55.1	58.6	61.6	60.7	60.2	58.5	52.7	43.2						
NFK 6310. RPM	5000	44.6	46.7	49.7	54.3	58.5	61.3	62.4	62.0	60.6	54.2	42.5						
(661. RAD/SEC)	6300	43.2	46.4	49.0	53.6	57.6	60.0	61.6	61.9	60.5	53.1	41.4						
NF3 8823. RPM	8000	40.8	44.4	47.0	52.4	55.4	58.4	60.3	60.0	58.5	50.7	38.9						
(924. RAD/SEC)	10000	38.2	42.1	45.6	52.0	55.0	57.3	59.1	59.6	57.6	48.4	35.4						
NO. OF BLADES 15	12500	35.2	38.3	41.9	48.4	52.0	53.3	55.6	56.6	53.8	43.7	28.2						
FAN TIP SPEED	16000	26.7	31.1	34.6	41.5	44.6	47.0	48.7	49.5	46.0	34.2	16.5						
835. FT/SEC	20000	20.9	25.3	29.6	37.2	40.3	42.7	43.7	44.1	40.9	27.2	4.4						
	25000	10.5	16.0	20.5	27.9	30.8	33.1	33.8	33.3	28.0	12.1							
	31500		3.7	9.2	18.1	21.1	23.4	22.8	21.0	13.0								
	40000					1.2	3.1	2.7										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		61.3	62.9	64.7	68.0	70.2	72.1	72.9	72.5	71.5	67.4	60.1						
PNDB		72.9	74.7	76.8	80.5	83.0	84.9	85.9	85.8	84.8	80.0	70.1						

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POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 25 HR. 13.2

OVERALL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT, 0 FT. MSL. DAY)

ANGLES FROM INLET IN DEGREES (MIC POSITIONS)

	FREQ	33. (.92)	66. (1.08)	71. (1.24)	91. (1.41)	91. (1.54)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	PWL
RADIAL 17. FT.	10																		
(5. M)	100	67.0	75.6	75.6	74.2	71.9	72.9	72.4	72.7	76.0	80.1	84.1							110.2
VEHICLE P-55	125	71.5	80.1	80.1	77.7	75.5	75.2	75.1	77.2	78.7	80.8	83.4							112.5
CONFIG 75-1F	160	72.3	77.6	77.7	76.7	77.9	77.9	76.1	77.4	79.2	81.6	84.1							111.3
LOC SCHENECTADY	200	71.3	78.9	77.1	78.7	76.4	76.4	77.1	78.7	80.0	83.1	84.6							112.1
DATE 1/17/75	250	74.0	74.9	75.6	76.2	76.5	77.1	78.4	79.1	80.5	82.1	83.6							112.8
RUN 5E/3	315	75.8	76.6	76.9	78.2	77.4	78.4	78.6	78.9	79.7	81.8	82.9							112.9
TAPE	400	73.4	74.1	73.9	75.7	75.4	75.9	77.4	78.4	79.5	80.9	82.9							111.6
BAR 30.2 HG	500	71.9	72.2	72.4	75.2	74.9	76.7	77.6	79.2	79.7	81.4	81.1							111.5
([16]0. N/M2)	630	75.4	75.7	76.4	76.5	78.2	80.2	81.4	81.9	82.5	82.6	81.1							114.3
TAMB 30. DEG F	800	75.7	75.4	76.2	78.7	78.7	79.2	80.4	81.7	82.0	82.4	81.1							113.7
(272. DEG K)	1000	73.4	74.2	74.4	80.2	79.2	80.5	82.9	83.4	84.2	83.9	80.9							115.3
TJET 21. DEG F	1250	74.7	74.7	76.7	80.0	81.2	83.0	84.9	85.4	85.5	85.4	80.9							116.7
(267. DEG K)	1600	80.2	80.7	82.1	82.6	86.2	90.8	91.8	91.9	91.5	90.7	84.6							123.2
MACT 0.42 GM/M3	2000	78.9	79.7	81.4	84.3	86.5	89.5	90.1	90.6	90.0	88.4	83.9							121.5
(0.0042 KG/M3)	2500	75.5	77.4	79.1	82.3	84.7	87.0	88.3	87.8	88.5	86.6	80.6							119.4
NFA 6891. RPM	3150	74.6	76.4	77.8	82.1	85.0	87.7	90.7	89.5	91.2	85.1	81.8							121.0
(721. RAD/SEC)	4000	73.8	75.1	77.4	82.5	85.6	88.9	89.1	88.9	89.6	85.5	81.7							120.5
NFK 7092. RPM	5000	73.3	74.8	77.9	82.0	86.3	89.8	91.8	92.1	91.3	87.2	82.1							122.3
(743. RAD/SEC)	6300	73.7	75.8	77.7	82.3	85.1	89.2	90.5	91.8	92.7	87.3	81.9							122.3
NFB 8823. RPM	8000	73.4	75.8	77.1	82.1	86.2	88.5	90.4	91.9	92.2	87.7	82.1							122.2
(924. RAD/SEC)	10000	72.6	75.5	77.6	83.5	85.7	89.2	91.3	92.8	93.4	88.3	82.6							123.2
NO. OF BLADES 19	12500	72.6	74.2	77.1	82.9	85.3	87.6	90.4	92.2	92.4	87.5	81.9							122.0
FAN TIP SPEED	16000	69.0	70.8	72.9	78.2	81.9	84.7	88.2	89.7	89.9	84.3	79.8							120.2
602. FT/SEC	20000	66.6	70.5	73.0	78.7	82.1	85.3	88.0	90.6	91.2	85.7	80.0							121.4
	25000	66.8	68.8	71.4	77.2	80.2	83.3	85.9	89.0	88.8	84.0	78.3							120.1
	31500	65.7	68.1	71.3	77.9	79.7	83.3	85.4	87.2	87.7	82.8	75.9							120.0
	40000	62.7	64.4	66.9	72.2	74.8	78.3	81.2	82.6	83.2	78.9	69.4							116.8
	50000	62.1	61.8	64.4	67.8	70.0	73.9	76.8	77.0	77.9	74.1	64.2							113.7
	63000	63.0	61.0	62.9	63.7	64.1	66.9	68.7	69.0	69.4	67.7	60.8							109.4
	80000	66.3	65.2	64.9	62.5	62.7	63.4	63.8	63.8	63.4	63.1	61.3							110.7
OVERALL MEASURED																			
OVERALL CALCULATED		88.4	90.8	91.2	94.9	97.1	99.8	101.7	102.6	102.9	99.5	96.4							133.7
	PNdB	100.3	101.7	103.0	106.8	109.1	111.8	113.5	113.9	114.2	110.9	107.5							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.L. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	43.4	50.9	53.6	52.5	50.3	51.2	50.2	49.6	51.6	53.5	54.1						
125	47.8	57.3	59.0	57.9	54.9	54.4	52.8	54.0	54.2	54.2	53.1						
160	48.4	49.7	50.4	52.8	51.2	52.0	53.8	54.2	54.8	54.8	53.7						
200	47.3	47.9	49.8	51.7	52.6	54.4	54.7	55.3	55.2	56.1	53.9						
250	50.0	51.8	53.2	54.2	54.7	55.1	55.8	55.7	55.6	55.0	52.7						
315	51.6	53.5	54.4	56.1	55.7	56.3	56.0	55.4	54.8	54.6	51.8						
400	49.3	50.9	51.3	53.5	53.3	53.7	54.7	54.8	54.4	53.4	51.5						
500	47.5	48.8	49.7	52.0	52.9	54.1	54.8	55.4	54.5	53.8	49.6						
630	50.9	52.2	53.6	57.1	56.0	57.6	58.5	58.1	57.1	54.9	49.3						
800	51.0	51.8	53.3	55.7	55.8	56.7	57.3	57.7	56.5	54.4	49.0						
1000	48.6	50.4	51.4	54.6	55.7	57.0	59.7	59.3	58.5	55.7	48.4						
1250	49.7	50.3	53.5	57.3	58.6	60.2	61.5	61.1	59.8	57.0	48.1						
1600	55.0	56.6	58.8	62.9	65.5	67.6	68.3	67.4	65.4	61.9	51.4						
2000	53.5	55.4	57.8	61.2	63.5	65.4	66.4	65.9	63.6	59.3	50.1						
2500	50.9	52.9	54.4	59.1	61.8	63.7	64.4	62.9	61.9	59.3	46.4						
3150	48.6	51.6	53.8	58.5	61.6	64.1	66.5	64.3	64.2	55.3	46.9						
4000	47.2	50.8	53.0	58.6	61.8	64.9	64.5	63.2	62.0	54.9	45.7						
5000	47.1	51.2	53.2	57.8	62.3	64.5	66.9	66.0	63.3	56.2	45.5						
6300	45.9	49.4	52.3	57.4	60.4	64.2	64.8	64.9	63.8	55.1	43.4						
8000	44.1	47.9	50.5	56.1	59.4	62.4	63.8	63.8	61.8	53.5	40.8						
10000	41.5	44.1	49.6	56.0	58.5	61.8	62.8	62.8	60.9	51.4	37.4						
12500	38.7	42.3	46.6	53.1	55.4	57.8	59.6	59.6	56.8	46.7	31.0						
16000	35.5	34.8	38.6	44.8	48.8	51.2	53.5	52.8	49.2	37.0	19.5						
20000	23.9	29.0	33.6	40.5	44.3	46.9	48.2	48.1	43.8	29.9	7.2						
25000	13.5	19.5	24.8	32.1	35.5	38.1	38.8	38.3	32.0	16.1							
31500		7.5	14.2	22.1	25.1	27.9	27.8	24.7	17.0								
40000				2.1	5.5	7.9	7.5	2.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.8	65.6	67.2	70.8	72.7	75.0	76.1	75.4	73.6	69.2	63.5						
PNDB	74.5	77.0	79.1	83.0	85.4	87.9	89.2	88.2	87.1	81.2	72.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE F-85
CONFIG 75-1H
LOC SCHENECTADY
DATE 1/17/75
RUN 35/3
TAPE
BAR 30.2 HG (31890. N/M2)
TAMB 30. DEG F (272. DEG K)
TJET 91. DEG F (257. DEG K)
WACT 0.42 GM/M3 (.00042 KG/M3)
NFA 6391. RPM (721. RAD/SEC)
NFK 7092. RPM (743. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 602. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (50. DEC. F. 70 PERCENT R.L. HUM. DAY)

PROC. DATE = MONTH 3 DAY 25 HR. 13.3

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.8	71.9	73.6	73.7	74.1	74.7	74.6	75.4	79.0	83.6	87.1							112.4
VEHICLE R-55	125	75.5	74.1	78.6	77.4	77.1	77.4	78.6	80.7	81.0	83.8	88.9							114.2
CONFIG 75-1R	160	74.6	74.6	75.7	76.4	76.1	78.1	79.1	80.4	82.2	85.3	87.9							114.5
LOC SCHENECTADY	200	74.3	73.9	74.6	76.4	77.1	79.2	79.9	81.9	83.5	86.1	88.4							115.3
DATE 1/17/75	250	77.3	77.6	78.9	80.2	80.4	80.9	82.4	84.1	84.5	86.3	87.8							116.7
RUN 55/4	315	79.1	79.1	79.4	80.4	80.6	80.9	81.1	82.2	83.5	85.6	86.8							116.0
TAPE	400	77.3	77.6	77.2	78.7	78.9	79.2	81.1	81.4	82.5	84.9	85.9							115.0
BAR 30.2 HG	500	75.1	75.4	75.7	77.5	78.2	79.2	80.9	81.9	83.0	84.6	85.1							114.6
(1A90. N/M2)	630	77.7	77.2	78.4	80.5	80.9	82.5	83.9	84.4	84.8	85.4	84.6							116.6
TAMB 30. DEG F	800	78.2	78.4	78.7	80.5	80.9	82.2	83.4	84.2	85.0	85.4	84.6							116.5
(272. DEG K)	1000	75.7	77.2	77.2	79.7	81.2	83.2	85.1	85.9	86.0	85.6	83.4							117.2
TMET 21. DEG F	1250	77.2	77.4	78.7	81.3	84.0	85.7	86.6	86.9	87.0	86.4	83.4							118.6
(267. DEG K)	1600	79.4	80.2	81.4	84.8	86.2	88.5	89.8	90.2	89.5	87.4	82.9							121.2
HACT 0.42 GM/M3	2000	84.4	85.7	87.6	90.6	92.2	94.5	95.8	97.1	96.7	93.9	89.4							127.6
(.00042 KG/M3)	2500	78.9	80.2	82.4	86.1	89.2	90.2	90.8	90.8	90.5	88.6	83.3							122.3
NFA 7658. RPM	3150	74.4	78.2	79.5	84.1	87.2	88.2	90.0	91.0	90.2	86.9	82.0							121.3
(802. RAD/SEC)	4000	75.9	80.6	82.4	87.0	90.4	92.9	92.9	94.4	92.8	89.5	85.2							124.7
NFK 7881. RPM	5000	75.7	78.8	80.9	85.7	89.6	91.5	93.5	93.3	93.3	88.5	83.8							124.3
(825. RAD/SEC)	6300	78.2	80.8	83.2	88.9	90.8	93.0	96.7	95.8	95.9	90.3	84.9							126.7
NFD 8823. RPM	8000	78.2	78.6	81.4	86.1	88.7	91.8	93.9	94.7	94.9	89.9	84.6							125.2
(924. RAD/SEC)	10000	76.3	79.0	82.3	87.5	90.4	92.7	95.0	96.5	96.4	90.8	85.1							126.7
NO. OF BLADES 18	12500	75.8	78.2	80.9	87.1	90.1	92.6	93.9	96.2	95.9	89.7	84.4							126.4
FAN TIP SPEED	16000	72.5	74.8	77.4	82.5	86.2	88.5	91.2	93.4	92.7	87.0	82.3							123.6
669. FT/SEC	20000	72.8	74.5	78.0	83.2	86.4	89.0	92.0	94.6	94.2	88.7	83.0							125.1
	25000	71.5	73.3	76.9	81.7	84.7	88.1	91.1	93.5	93.3	88.0	82.3							124.7
	31500	69.3	71.8	76.3	81.3	84.5	87.0	89.4	92.2	91.2	86.1	78.9							124.1
	40000	66.2	68.4	71.9	76.4	79.5	82.3	86.0	86.9	87.2	81.9	72.4							121.0
	50000	63.9	64.6	67.9	71.5	74.2	77.7	81.5	81.5	81.7	74.1	66.7							117.9
	63000	63.2	62.0	64.4	65.0	67.6	70.4	73.0	72.8	73.6	70.2	61.8							112.7
	80000	66.3	65.7	64.9	63.5	63.2	64.4	65.8	65.3	65.1	64.4	61.3							111.6
OVERALL MEASURED																			
OVERALL CALCULATED		91.5	92.7	94.5	98.4	100.8	103.1	105.0	106.1	105.9	102.1	99.5							137.1
	PNOB	104.3	105.6	107.3	110.6	113.0	115.0	116.7	117.0	116.8	114.1	110.8							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	45.1	49.2	51.6	52.3	52.6	52.9	52.4	52.3	54.6	57.0	57.1						
VEHICLE R=55	125	51.8	55.3	56.2	56.7	55.5	55.6	56.3	57.5	56.5	57.2	56.6						
CONFIG 75-1H	160	56.7	51.7	53.4	54.6	54.4	54.5	56.8	57.2	57.6	58.5	57.4						
LOC SCHENECTADY	200	56.3	50.9	52.3	54.5	55.3	57.2	57.4	58.6	58.7	59.1	57.7						
DATE 1/17/75	250	53.2	54.6	56.5	58.2	58.5	58.9	59.4	60.7	59.6	59.2	57.0						
RUN 55/4	315	54.9	56.3	56.9	58.3	58.7	58.8	58.5	58.6	58.5	58.3	55.5						
TAPE	400	53.1	54.4	54.6	56.5	56.8	57.0	58.4	57.8	57.4	57.4	54.5						
BAR 30.2 HG	500	50.7	52.0	53.0	55.2	56.0	56.9	58.1	58.2	57.8	57.0	53.6						
(01890. N/M2)	630	53.1	53.7	55.6	58.1	58.7	60.1	61.0	60.6	59.4	57.6	52.8						
TAMB 70. DEG F	800	53.5	54.8	55.8	58.0	58.6	59.7	60.3	60.2	59.5	57.4	52.5						
(272. DEG K)	1000	51.8	53.4	54.1	57.1	58.7	60.6	61.9	61.8	60.3	57.4	50.9						
TDET 21. DEG F	1250	52.2	53.5	55.5	58.5	61.4	63.0	63.3	62.6	61.1	58.0	50.6						
(257. DEG K)	1600	54.2	56.1	58.0	61.6	63.5	65.6	66.3	65.7	63.4	58.7	49.6						
HACT 0.42 GM/M3	2000	59.0	61.4	64.1	67.5	69.3	71.4	72.1	72.4	70.4	64.8	55.6						
(.00042 KG/M3)	2500	58.2	55.7	59.6	62.8	65.9	66.9	66.9	65.9	63.9	57.3	49.1						
NFA 765. RPM	3150	53.3	53.3	55.8	60.5	63.8	64.6	65.8	65.8	63.2	55.0	47.1						
(802. RAD/SEC)	4000	51.7	55.3	58.0	63.1	66.6	68.9	68.2	68.7	65.2	58.9	49.2						
NFK 7881. RPM	5000	49.6	53.2	56.2	61.5	65.5	67.3	68.6	67.3	65.3	57.4	47.2						
(825. RAD/SEC)	6300	50.4	54.4	57.8	63.9	65.9	68.0	71.1	68.9	67.0	58.1	46.4						
NFD 8923. RPM	8000	47.8	50.9	54.8	60.1	62.9	65.7	67.1	66.5	64.5	55.7	43.3						
(924. RAD/SEC)	10000	43.2	49.8	54.1	60.3	33.0	65.1	66.6	66.8	63.9	53.9	39.8						
NO. OF BLADES 15	12500	41.9	46.3	50.4	57.4	61.5	62.8	63.1	63.6	60.3	48.9	33.5						
FAN TIP SPEED	16000	34.0	39.8	43.1	49.0	53.1	55.0	56.5	56.5	52.0	39.7	22.0						
669. FT/SEC	20000	24.2	33.0	38.6	45.0	48.5	50.7	52.2	52.1	46.9	32.9	10.2						
	25000	18.2	24.0	30.3	36.6	40.0	42.8	44.0	42.8	36.5	20.1							
	31500	3.2	11.2	19.2	26.1	29.9	31.6	31.6	29.7	20.5	0.5							
	40000				4.3	10.2	11.9	12.2	6.7									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		65.8	68.0	70.2	73.9	76.2	78.0	79.0	78.6	76.5	71.7	66.9						
PNDB		78.5	80.9	83.4	87.1	89.3	91.2	91.9	91.7	89.8	84.5	76.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 3 DAY 25 HR. 13.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. 10.	0. 10.	0. 10.	0. 10.	0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. M)	100	68.5	71.9	73.1	73.7	73.9	74.4	74.6	75.4	79.0	83.9	87.6								112.8
VEHICLE BASS	125	75.5	78.4	77.6	77.4	77.1	76.7	78.4	80.4	81.2	83.8	86.9								114.2
CONFIG 75-1K	160	74.6	74.9	75.2	75.9	75.7	76.4	79.4	80.7	83.0	85.3	87.6								114.8
LOC SCHENECTADY	200	74.0	73.9	74.4	75.4	77.4	77.4	80.1	81.7	83.7	86.1	88.4								115.3
DATE 1/17/75	250	77.5	78.4	79.1	80.4	80.4	81.1	82.9	83.9	84.5	86.8	87.8								116.8
RUN 55/5	315	78.6	79.4	79.4	80.4	80.9	81.2	81.6	82.2	83.2	85.6	87.1								116.2
TAPE	400	77.1	77.4	77.2	78.2	79.1	79.4	80.6	81.9	82.7	85.1	86.1								115.1
BAR 30.2 HG	500	74.6	75.4	75.7	77.5	77.9	79.5	80.9	82.2	82.7	84.4	84.6								114.5
(102900. N/M2)	630	77.9	77.4	78.7	80.2	81.7	82.2	83.6	84.2	84.8	84.9	84.4								116.5
TAMB 30. DEG F	800	78.4	78.2	78.9	80.2	80.3	82.0	83.6	84.7	85.2	85.5	83.9								116.6
(272. DEG K)	1000	76.7	77.2	77.4	79.7	80.9	83.0	85.1	85.9	86.2	85.5	83.4								117.2
TJET 21. DEG F	1250	77.7	77.4	78.7	81.3	83.5	85.2	86.9	87.2	87.5	85.9	83.6								118.6
(267. DEG K)	1600	79.7	80.2	81.6	84.6	86.5	88.5	90.1	90.2	90.0	87.2	83.1								121.3
HACT 0.42 GM/M3	2000	85.2	85.5	87.6	90.8	92.5	95.0	96.3	97.4	97.0	93.6	89.6								127.9
(.00042 KG/M3)	2500	79.6	80.4	82.6	84.1	89.7	90.2	91.0	91.1	91.2	86.6	83.3								122.5
NFA 7653. RPM	3150	76.4	78.4	79.8	84.3	88.7	88.7	90.2	91.3	90.4	85.4	82.3								121.6
(831. RAD/SEC)	4000	78.8	80.6	82.7	87.3	90.6	92.9	93.1	94.7	93.1	89.3	84.9								124.9
NFK 7876. RPM	5000	77.2	78.8	80.9	86.2	89.3	91.3	93.5	93.8	93.3	89.0	84.1								124.4
(825. RAD/SEC)	6300	78.7	80.8	83.2	88.4	90.6	93.2	96.7	95.6	95.9	90.3	85.4								126.7
NFD 8023. RPM	8000	76.7	78.8	81.1	86.1	89.7	91.5	94.1	94.9	94.9	89.7	84.8								125.3
(924. RAD/SEC)	10000	77.1	78.7	81.6	87.3	90.6	92.7	95.5	96.5	96.2	90.8	85.6								126.8
NO. OF BLADES 15	12500	76.3	77.9	80.6	86.9	90.1	92.4	94.4	96.2	95.4	90.0	84.7								126.4
FAN TIP SPEED	16000	72.7	74.6	77.7	82.5	86.2	88.7	91.7	94.2	92.7	87.0	82.3								123.9
668. FT/SEC	20000	72.8	74.7	78.0	83.0	86.1	89.5	92.2	94.8	94.2	88.7	83.0								123.2
	25000	71.3	73.3	76.4	82.0	84.4	87.8	91.1	93.7	93.3	87.7	82.0								124.7
	31500	69.8	72.1	75.8	81.8	84.0	87.5	89.6	92.0	91.0	85.9	79.2								124.1
	40000	66.2	68.1	71.9	77.2	79.5	82.3	86.0	86.9	86.9	81.9	72.9								121.0
	50000	63.9	63.8	67.6	71.8	74.2	77.7	81.5	81.5	81.7	77.8	67.2								117.9
	63000	63.2	61.5	63.9	65.2	67.3	70.6	73.7	73.3	73.6	70.4	62.1								113.0
	80000	66.3	62.5	64.9	63.0	63.2	64.6	65.8	65.5	65.9	64.1	61.3								111.4
OVERALL MEASURED		91.8	92.7	94.5	98.4	100.9	103.1	105.3	106.3	105.9	102.0	99.6								137.2
OVERALL CALCULATED																				
	PNDB	104.8	105.5	107.3	110.6	113.1	115.1	116.8	117.2	116.8	114.8	111.8								

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 25 HR. 13.3

MODEL SOUND PRESSURE LEVELS 159. DEG. F. 70 PERCENT @ L. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	44.9	49.2	51.1	52.0	52.3	52.7	52.4	52.3	54.6	57.3	57.6						
VEHICLE P-55	125	51.8	55.6	55.5	55.7	55.5	54.9	56.1	57.3	56.7	57.2	56.6						
CONFIG 75-1H	160	50.7	52.0	52.9	54.1	54.2	54.5	57.0	57.4	58.3	58.5	57.2						
LOC SCHENECTADY	200	53.1	53.9	52.1	53.5	55.6	57.4	57.7	58.3	58.5	59.1	57.7						
DATE 1/17/75	250	53.5	55.3	56.7	58.4	58.5	59.1	60.3	60.5	59.6	59.7	57.0						
RUN 55/S	315	54.4	56.2	56.9	58.3	58.9	59.0	59.0	58.6	58.3	58.3	56.0						
TAPE	400	52.8	54.1	54.6	56.0	57.1	57.2	57.9	58.3	57.6	57.7	54.8						
BAR 30.2 HG	500	50.7	52.0	53.0	55.2	55.8	57.1	58.1	58.4	57.5	54.8	53.1						
(01690. N/M2)	630	53.4	53.9	55.9	57.9	59.4	59.8	60.7	60.3	59.4	57.1	52.5						
TAMB 30. DEG F	800	53.7	54.5	56.0	57.7	58.6	59.4	60.6	60.7	59.7	57.6	51.7						
(272. DEG K)	1000	51.8	53.4	54.4	57.1	58.4	60.3	61.9	61.8	60.5	57.4	50.9						
TWET 21. DEG F	1250	52.7	53.5	55.5	58.5	60.9	62.5	63.5	62.9	61.6	57.5	50.8						
(267. DEG K)	1600	54.5	56.1	58.3	61.6	63.7	65.5	66.6	65.7	63.9	58.4	49.9						
HACT 0.42 GM/M3	2000	59.7	61.1	64.1	67.5	69.5	71.9	72.8	72.7	70.6	64.6	55.9						
(.00042 KG/M3)	2500	54.0	55.9	58.9	62.8	65.6	68.9	67.2	66.2	64.6	57.3	49.1						
NFA 7653. RPM	3150	50.3	53.6	55.8	60.8	63.3	65.1	66.0	66.0	63.4	55.5	47.4						
(801. RAD/SEC)	4000	52.2	55.3	58.2	63.3	66.5	68.9	68.5	68.9	65.5	58.7	49.9						
NFK 7876. RPM	5000	50.3	53.2	56.2	62.0	65.3	67.0	68.6	67.8	65.3	57.9	47.5						
(825. RAD/SEC)	6300	50.9	54.4	57.8	63.9	66.9	68.2	71.1	68.7	67.0	58.1	46.9						
NFD 8623. RPM	8000	47.5	51.2	54.5	60.1	62.9	65.4	67.3	66.8	64.5	55.5	43.6						
(924. RAD/SEC)	10000	46.0	49.4	53.0	59.8	63.3	65.1	67.1	66.6	63.6	53.9	40.4						
NO. OF BLADES 15	12500	42.4	46.1	50.1	57.1	60.5	62.5	63.6	63.6	59.8	49.2	33.7						
FAN TIP SPEED	16000	34.2	38.6	43.3	49.6	53.1	55.2	57.0	57.3	52.0	39.7	22.0						
668. FT/SEC	20000	28.2	33.3	38.6	44.7	48.3	51.2	52.4	52.1	46.9	32.9	10.2						
	25000	18.0	24.0	29.0	36.9	39.8	42.6	44.0	43.1	38.5	19.9							
	31500	3.7	11.5	18.7	26.6	29.4	32.1	31.8	29.5	20.2	0.3							
	40000				7.1	10.2	11.9	12.2	6.7									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		66.1	68.0	70.2	73.9	76.2	78.1	79.2	78.7	76.7	71.7	66.9						
PNDB		78.9	80.9	83.4	87.1	89.4	91.2	92.2	91.9	90.8	84.4	78.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 25 HR. 13.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0.)10.	0.)1(0.	0.)10.	0.)10.	0.)	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. M)	100	71.7	73.9	76.9	78.5	79.3	78.6	72.8	69.3	72.0	74.3	76.7								109.6
VEHICLE R-55	125	67.2	69.4	72.2	69.5	73.6	67.6	67.5	72.0	72.0	72.0	75.2								104.8
CONFIG 75-1M	160	65.5	65.2	65.7	66.7	66.6	66.9	69.3	70.0	72.0	73.5	75.7								103.7
LOC SCHENECTADY	200	64.2	64.9	65.2	66.0	67.3	69.1	70.0	72.0	73.0	74.5	76.4								104.6
DATE 1/17/75	250	66.7	68.9	68.6	69.5	70.0	70.4	71.5	72.2	72.9	73.5	75.4								105.2
RUN 55/6	315	69.7	70.9	70.7	71.7	71.3	72.2	71.8	72.3	73.2	73.8	75.2								106.1
TAPE	400	67.3	68.9	68.7	69.7	69.8	70.7	71.3	72.0	73.0	73.5	74.4								105.1
BAR 30.2 HG	500	66.0	68.2	67.4	68.5	69.6	70.4	71.8	73.3	74.2	74.0	74.4								105.4
([1]90. N/M2)	630	70.3	71.2	71.7	72.8	73.6	74.5	76.3	76.8	77.0	76.6	74.4								108.7
TAMB 30. DEG F	800	70.3	71.5	70.4	72.5	72.8	74.5	75.3	76.8	77.5	77.5	74.7								108.7
(272. DEG K)	1000	68.6	70.7	69.4	72.0	73.8	74.0	78.3	79.5	80.5	80.5	75.2								110.7
TSET 21. DEG F	1250	75.4	76.0	75.9	80.1	81.9	84.5	86.3	86.3	87.0	87.3	80.7								117.9
(267. DEG K)	1600	72.3	74.2	74.7	77.1	79.7	81.5	83.5	84.0	83.7	83.1	76.9								115.0
HACT 0.42 GM/M3	2000	72.1	74.3	75.1	77.9	79.4	81.7	83.0	83.0	83.0	82.3	76.4								114.8
(.00042 KG/M3)	2500	71.6	75.0	75.1	78.6	81.4	84.7	85.4	84.9	87.5	84.3	80.4								117.0
NFA 3365. RPM	3150	67.3	73.2	70.8	74.4	77.6	80.7	82.1	83.4	83.9	80.0	75.6								113.9
(352. RAD/SEC)	4000	69.4	74.4	71.7	76.6	79.6	82.6	83.3	84.0	85.1	83.4	77.5								115.4
NFK 5522. RPM	5000	67.1	74.6	70.6	74.8	78.9	81.5	84.4	85.2	85.2	82.6	76.4								115.6
(578. RAD/SEC)	6300	67.1	76.3	71.0	74.3	78.1	81.4	83.6	84.9	85.9	83.3	77.2								115.6
NFD 8823. RPM	8000	68.9	76.1	69.7	73.4	78.6	80.5	82.8	84.3	85.2	82.6	76.1								115.0
(924. RAD/SEC)	10000	68.7	76.5	69.5	74.3	77.5	81.7	83.2	85.4	86.9	83.2	76.9								116.2
NO. OF BLADES 15	12500	65.0	77.7	67.7	72.7	76.7	79.6	82.3	84.3	85.4	81.7	75.7								115.1
FAN TIP SPEED	16000	62.4	79.1	64.7	70.3	73.4	77.0	79.6	82.2	83.6	79.2	73.6								113.5
468. FT/SEC	20000	61.5	77.0	64.5	70.3	74.1	76.7	79.9	82.0	83.9	79.9	73.0								113.9
	25000	59.7	77.1	62.4	67.8	71.1	74.1	76.5	79.3	80.5	76.4	70.3								111.7
	31500	58.6	74.6	61.6	68.3	71.4	74.2	76.5	78.3	79.7	75.8	68.2								111.9
	40000	55.4	73.7	58.6	63.5	66.2	69.5	72.1	73.5	75.4	71.9	62.0								109.2
	50000	55.5	73.1	57.2	58.8	61.4	64.9	67.7	67.8	69.2	67.0	57.3								107.0
	63000	55.9	66.1	56.2	55.3	56.5	58.6	60.4	60.9	61.3	59.9	53.9								103.0
	80000	57.7	60.3	55.7	55.3	54.8	54.6	55.5	55.1	55.1	54.8	52.8								102.9
OVERALL MEASURED																				
OVERALL CALCULATED		83.1	88.8	85.5	88.5	90.7	93.4	93.0	96.2	97.0	93.0	90.4								127.6
	PWDB	94.8	98.9	97.7	100.9	103.3	106.1	107.3	108.4	109.0	107.0	102.9								

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE - MONTH 3 DAY 25 HR. 13.3

MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.L. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
FREQ.																	
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	48.1	51.2	54.8	56.4	56.7	54.2	50.6	46.2	47.5	47.7	46.6						
VEHICLE S-55 125	47.5	49.6	50.0	47.7	48.9	45.8	45.2	48.9	47.4	49.3	44.9						
CONFIG 75-1H 160	41.6	42.3	43.4	44.9	45.1	45.0	46.9	46.8	47.3	46.7	45.2						
LOC SCHENECTADY 200	40.3	42.3	42.8	44.0	45.5	47.2	47.6	48.7	48.2	47.6	45.7						
DATE 1/17/75 250	42.7	45.2	46.3	47.5	48.2	48.3	49.0	48.8	48.1	46.4	44.5						
RUN 55/A 315	45.6	47.8	48.2	48.6	48.3	50.0	49.2	48.7	48.2	46.5	44.1						
TAPE 400	43.0	45.7	46.1	47.6	47.8	48.5	48.6	48.4	47.9	46.1	43.1						
BAR 30.2 HG 500	41.7	44.8	44.7	46.2	47.4	48.1	49.0	49.5	49.0	46.5	42.9						
(101890. N/M2) 630	45.8	47.7	48.9	50.4	51.4	52.1	53.4	52.9	51.6	48.8	42.6						
TAMB 30. DEG F 800	45.7	47.8	47.5	50.0	50.5	51.9	52.2	52.8	51.9	49.9	42.5						
(272. DEG K) 1000	43.8	46.9	48.4	49.4	51.4	53.3	55.1	55.4	54.8	52.4	42.7						
TWET 21. DEG F 1250	50.4	52.1	52.7	57.3	59.3	61.7	62.9	62.0	61.1	58.9	47.9						
(267. DEG K) 1600	47.6	50.1	51.3	54.2	56.9	58.5	60.0	59.5	57.6	54.4	43.7						
HACT 0.42 GM/M3 2000	46.7	49.9	51.6	54.8	56.5	58.6	59.3	58.3	56.4	53.3	44.7						
(.00042 KG/M3) 2500	45.9	51.5	51.4	55.4	56.3	61.4	61.6	62.0	60.6	55.0	46.2						
NFA 5365. RPM 3150	41.3	48.4	46.8	50.9	54.2	57.1	58.0	58.1	56.9	50.2	40.7						
(562. RAD/SEC) 4000	42.9	49.1	47.2	52.6	55.8	58.6	58.6	58.3	57.5	52.9	41.5						
NFK 5522. RPM 5000	40.3	49.0	45.9	50.5	54.7	57.3	59.6	59.1	57.3	51.6	39.8						
(578. RAD/SEC) 6300	39.3	49.9	45.5	49.4	53.3	56.5	58.0	58.0	57.0	51.0	38.7						
NFD 8823. RPM 8000	36.7	48.5	43.1	47.4	50.8	54.4	56.0	56.1	54.8	48.4	34.9						
(924. RAD/SEC) 10000	34.7	47.2	41.3	46.8	50.2	54.1	54.7	55.4	54.4	46.3	31.7						
NO. OF BLADES 15 12500	31.1	45.9	37.1	42.9	47.2	49.8	51.5	51.7	49.6	40.9	24.8						
FAN TIP SPEED 16000	23.9	43.1	30.3	36.8	40.2	43.5	44.9	45.3	43.8	31.9	13.3						
460. FT/SEC 20000	16.9	35.6	25.1	32.0	35.2	38.4	40.1	39.4	36.6	24.1	8.2						
25000	6.4	27.8	15.6	22.7	28.5	29.8	29.4	28.6	23.7	8.8							
31500		14.0	4.5	13.2	16.8	18.9	18.7	15.8	8.9								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.9	61.9	62.1	65.1	67.1	69.3	70.1	69.9	68.7	64.7	57.8						
PNDB	68.7	73.8	73.7	77.3	79.9	82.5	83.1	83.2	82.0	77.1	68.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	A1. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
80																		
100	72.5	74.4	76.7	78.2	76.1	77.1	73.3	68.3	72.2	74.3	76.7							109.6
125	65.7	69.4	70.9	70.5	70.6	67.6	66.8	70.8	71.5	71.8	74.9							104.4
160	64.5	64.7	64.7	66.2	66.5	66.9	68.8	70.3	72.0	73.5	75.9							103.0
200	64.3	64.4	64.9	66.7	67.3	69.1	69.5	71.5	72.7	74.9	77.2							104.8
250	67.3	67.4	68.1	69.2	69.3	70.1	70.8	72.5	73.4	73.9	75.1							105.0
315	69.9	70.2	70.7	71.5	71.3	71.4	72.0	72.3	73.0	73.5	74.7							105.9
400	67.3	67.7	68.2	69.3	69.3	70.2	70.8	71.8	72.2	73.5	73.7							104.6
500	68.8	67.2	67.7	69.3	69.4	70.4	71.3	72.5	73.5	74.0	73.9							105.1
630	70.1	70.2	71.7	72.5	73.1	74.7	75.3	76.3	76.5	76.1	74.7							108.3
800	69.3	70.2	70.2	72.0	72.5	73.7	75.3	77.0	77.7	77.8	74.9							106.6
1000	68.6	69.5	70.2	72.5	73.5	75.5	77.8	79.3	80.5	80.3	74.9							110.5
1250	75.6	75.0	75.9	79.6	80.4	83.5	84.3	85.3	86.5	87.1	80.4							117.9
1600	72.5	72.2	72.9	76.1	77.7	80.0	82.0	82.7	82.5	82.3	76.2							113.7
2000	69.6	70.5	72.1	74.9	75.9	78.0	79.2	80.7	81.0	80.6	76.2							111.8
2500	67.3	69.0	70.9	72.9	75.2	78.2	80.7	81.9	82.7	79.1	73.4							112.3
3150	68.5	68.5	69.9	73.5	76.1	79.2	79.4	80.9	82.4	81.8	75.1							112.4
4000	70.2	70.8	72.7	75.8	79.4	83.1	83.5	85.8	87.3	85.9	80.2							116.8
5000	68.1	68.8	71.1	74.8	78.0	82.0	84.7	85.9	86.2	84.4	77.8							116.2
6300	67.6	69.3	71.0	74.6	77.8	81.7	84.4	85.4	86.7	83.8	77.7							116.1
8000	65.8	67.6	69.9	72.2	77.1	80.7	83.3	84.8	85.7	83.1	76.1							115.3
10000	64.5	66.0	68.3	72.6	75.5	79.7	82.8	83.9	86.1	81.5	75.4							114.9
12500	64.7	65.2	66.7	71.4	74.7	78.4	81.1	83.8	85.2	81.2	74.5							114.2
16000	62.2	63.1	64.7	69.3	73.4	78.0	79.1	82.0	83.6	79.7	73.9							112.9
20000	60.7	61.5	63.2	69.3	72.6	75.7	78.1	81.0	83.2	78.4	72.5							112.5
25000	59.7	60.3	61.6	68.0	70.6	73.6	76.0	78.8	80.6	76.4	69.8							111.0
31500	58.0	58.6	60.4	67.1	69.9	73.2	75.3	78.1	79.2	75.8	67.5							110.9
40000	56.1	55.9	58.4	62.7	65.7	68.8	71.1	73.5	75.6	71.4	62.8							106.1
50000	57.0	54.9	58.2	58.8	61.6	63.9	67.2	67.6	69.2	66.7	57.5							104.8
63000	57.4	53.6	57.9	56.0	57.7	58.6	60.6	60.4	61.8	58.9	55.1							101.7
80000	59.0	57.0	57.2	55.6	56.6	55.4	56.7	55.4	55.8	55.8	53.8							103.2
OVERALL MEASURED																		
OVERALL CALCULATED	82.7	83.5	84.9	87.6	89.4	92.2	94.0	95.5	96.7	94.9	90.0							120.6
PNdB	84.3	85.2	86.7	89.6	102.3	105.1	106.3	107.9	109.1	107.8	102.9							

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 12 HR. 10.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.8	51.7	54.5	56.5	56.5	55.4	51.1	45.2	47.8	47.7	46.6						
125	42.9	46.6	48.9	48.7	48.9	45.8	44.5	47.6	46.6	45.1	44.7						
160	40.6	41.8	42.4	44.4	44.8	45.0	46.4	47.0	47.3	46.7	45.5						
200	40.0	41.5	42.4	44.8	45.5	47.2	47.1	48.2	48.0	47.8	46.5						
250	42.9	44.4	45.9	47.2	47.7	48.1	48.2	49.1	47.6	46.7	44.3						
315	45.3	47.0	48.2	49.4	49.3	49.3	49.4	48.7	48.0	46.3	43.6						
400	42.7	44.4	45.6	46.9	47.3	48.0	48.1	48.1	47.1	46.1	42.3						
500	41.7	43.8	45.0	47.0	47.4	48.1	48.5	48.8	48.2	46.5	42.4						
630	45.6	46.7	48.9	50.4	50.9	52.3	52.4	52.4	51.1	48.3	42.8						
800	44.7	45.6	47.3	49.5	50.2	51.2	52.2	53.0	52.2	49.8	42.8						
1000	43.8	45.7	47.1	49.9	51.1	52.8	54.6	55.1	54.8	52.1	42.5						
1250	50.6	51.1	52.7	56.8	57.6	60.7	60.9	61.0	60.6	58.8	47.6						
1600	47.4	48.1	49.6	53.2	54.9	57.8	58.5	58.2	58.4	53.8	42.9						
2000	44.2	46.2	48.6	51.8	53.9	54.9	55.5	56.0	54.6	51.5	42.4						
2500	41.7	44.5	47.1	49.8	52.0	54.9	56.8	57.8	58.1	49.7	39.2						
3150	48.5	43.6	45.9	50.1	52.7	55.6	55.2	55.6	55.4	51.9	40.2						
4000	43.6	45.6	48.2	51.9	56.0	59.1	58.9	60.0	59.7	55.4	44.2						
5000	41.3	43.2	46.4	50.6	54.0	57.8	59.8	59.9	58.3	53.4	41.0						
6300	38.8	42.9	45.5	49.7	52.8	56.7	58.7	58.5	57.8	51.5	39.2						
8000	36.5	40.3	43.3	48.2	51.3	54.7	56.5	56.6	55.3	48.9	34.9						
10000	33.4	36.7	40.1	45.1	48.2	52.1	54.5	53.9	53.8	44.6	30.2						
12500	30.8	33.4	36.1	41.7	45.2	48.5	50.3	51.2	49.5	40.4	23.8						
16000	23.6	27.1	30.3	35.8	40.2	42.5	44.4	45.1	43.8	38.4	13.9						
20000	18.1	20.1	23.8	31.0	34.7	37.4	39.3	38.4	35.9	22.8							
25000	6.4	11.1	15.8	22.9	26.8	28.3	28.5	28.1	24.8	8.6							
31500			3.2	11.9	18.3	17.9	17.5	15.6	8.4								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.5	59.4	61.4	64.2	65.7	66.8	66.8	66.8	66.2	64.6	56.6						
PNDB	67.9	70.8	72.4	75.8	76.6	81.3	81.7	82.3	81.7	77.5	67.5						

SIDELINE 200. FT. (60.96 M)

VEHICLE [illegible]

CONFIG [illegible]

LOC SCHENECTADY

DATE 1/17/75

RUN 56/1

TAPE

BAR 30.2 MG (101890. N/M2)

TAMB 30. DEG F (272. DEG K)

TWET 21. DEG F (267. DEG K)

HACT 0.42 GM/M3 (.00042 KG/M3)

NFA 5366. RPM (562. RAD/SEC)

NFK 5523. RPM (578. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 18

FAN TIP SPEED 460. FT/SEC

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROG. DATE = MONTH 3 DAY 12 NO. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (ARC RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	59																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	75.5	75.4	73.9	75.4	74.9	71.2	68.8	69.2	72.0	76.0	80.6							100.0
VEHICLE E-55	125	68.5	70.1	72.1	73.4	72.4	70.9	70.9	73.7	74.5	76.3	79.6							102.4
CONFIG [illegible]	160	67.7	68.9	69.2	70.2	70.5	70.4	72.4	73.7	75.7	77.8	79.6							102.4
LOC SCHENECTADY	200	67.0	68.1	68.6	68.9	71.4	73.2	74.1	75.9	77.0	78.1	80.9							100.7
DATE 1/17/75	250	70.5	71.1	71.9	72.9	73.6	73.6	74.9	75.4	76.0	78.1	79.1							100.7
RUN 56/2	315	72.5	73.6	73.4	74.4	74.6	75.2	75.1	75.4	76.5	78.1	79.1							100.4
TAPE	400	70.3	70.9	70.9	71.9	72.1	73.2	73.9	74.9	76.0	76.9	78.1							100.8
BAR 30.2 MG	500	69.5	70.2	70.4	72.0	72.4	74.2	74.9	75.9	77.0	77.9	77.4							100.5
(81890. N/M2)	630	72.6	72.9	74.2	75.2	75.9	77.0	78.6	79.2	79.3	79.6	77.4							111.2
TAMB 30. DEG F	800	72.1	72.9	72.9	75.0	75.4	77.0	78.1	78.7	79.7	79.9	77.6							111.8
(272. DEG K)	1000	71.3	72.4	72.4	74.7	75.7	77.5	79.9	81.4	82.2	81.6	77.1							112.5
T-CT 21. DEG F	1250	73.4	73.2	74.4	77.3	79.2	81.0	82.6	83.4	84.0	84.4	78.4							114.9
(267. DEG K)	1600	80.1	79.4	80.4	83.6	86.5	87.8	88.6	88.4	89.3	90.2	82.4							120.7
MACT 0.42 GM/M3	2000	73.1	73.2	74.6	77.3	79.2	81.0	82.8	83.4	84.0	82.6	78.4							114.7
(.00042 KG/M3)	2500	68.3	69.9	71.1	73.6	76.2	79.2	81.0	81.1	81.5	77.4	74.3							112.1
NFA 6132. RPM	3150	71.5	73.7	75.0	77.6	80.0	83.2	86.0	86.8	87.4	84.1	80.0							117.9
(642. RAD/SEC)	4000	71.7	73.3	74.9	79.0	82.6	85.4	85.9	87.4	87.8	85.5	79.9							118.7
NFK 6311. RPM	5000	72.9	73.3	75.1	80.0	82.6	86.0	88.0	89.6	90.0	86.5	80.8							119.
(661. RAD/SEC)	6300	71.3	73.8	75.0	78.5	82.9	85.7	88.5	89.6	90.4	85.9	80.4							119.9
NFD 8023. RPM	8000	70.1	72.1	74.1	78.6	82.2	85.8	87.6	90.2	89.2	85.4	79.6							119.0
(924. RAD/SEC)	10000	68.7	70.7	72.5	77.8	80.9	84.4	86.8	88.5	89.7	84.3	78.9							118.9
NO. OF BLADES 18	12500	66.2	69.4	71.4	76.1	80.1	83.1	84.9	87.9	89.2	83.7	78.4							118.3
FAN TIP SPEED	16000	65.7	67.6	69.2	74.8	77.7	81.0	83.9	86.4	87.4	82.0	76.8							117.0
535. FT/SEC	20000	64.5	66.5	68.2	73.8	77.4	80.5	83.2	86.1	88.2	82.4	76.2							117.4
	25000	63.8	65.8	68.9	72.8	75.4	78.6	81.4	83.7	84.8	80.2	73.5							115.5
	31500	61.5	64.6	65.8	71.5	75.2	78.8	80.4	82.5	83.5	78.8	71.7							113.3
	40000	59.1	62.9	63.6	67.7	70.5	74.8	76.7	78.4	79.4	75.2	66.2							112.7
	50000	58.5	62.3	64.4	64.4	67.8	69.4	72.5	72.7	73.2	70.8	63.8							109.7
	63000	57.9	61.5	64.9	62.7	64.8	65.1	66.5	65.8	66.6	65.2	62.3							107.5
	80000	59.2	64.5	65.2	63.9	64.4	64.1	64.8	63.3	63.4	63.1	62.3							110.0
OVERALL MEASURED																			
OVERALL CALCULATED		86.8	88.7	87.6	90.7	93.5	95.9	97.7	99.2	99.9	97.3	93.8							120.3
	PNLB	98.2	98.6	99.7	102.9	105.7	108.1	109.7	110.9	111.8	109.4	104.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 12 HR. 10.3

MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	51.8	52.7	51.8	53.7	53.3	49.4	48.4	48.1	47.6	50.3	50.6						
VEHICLE R-56	125	44.7	47.3	50.0	50.7	50.7	49.1	48.6	50.5	50.0	49.7	49.4						
CONFIG [illegible]	160	43.9	46.3	48.9	48.3	48.2	48.5	50.0	50.4	51.1	51.0	49.2						
LOC SCHWEECHATZ	200	43.8	45.2	46.3	48.0	49.6	51.2	51.7	52.6	52.2	52.1	50.2						
DATE 1/17/75	250	48.4	48.1	49.5	50.9	51.7	51.8	52.3	52.0	51.1	51.0	48.2						
RUN 56/2	315	48.3	50.5	50.9	52.3	52.7	53.0	52.5	51.9	51.5	50.8	48.8						
TAPE	400	48.8	47.6	48.3	49.8	50.1	51.0	51.2	51.3	50.9	49.4	46.8						
BAR 30.2 MG	500	45.2	46.8	47.7	48.7	50.3	51.9	52.1	52.2	51.8	50.3	45.8						
(01890. N/M2)	630	49.1	49.4	51.4	52.9	53.7	54.6	55.7	55.3	53.9	51.9	45.5						
TAMB 70. DEG F	800	47.4	49.3	50.8	52.5	53.1	54.4	55.1	54.7	54.2	51.9	45.5						
(272. DEG K)	1000	46.5	48.8	49.4	52.1	53.2	54.8	54.7	57.3	54.5	53.4	44.7						
TACT 21. DEG F	1250	48.4	49.3	51.2	54.5	56.6	58.2	59.3	59.1	58.1	54.8	45.6						
(257. DEG K)	1600	54.9	55.3	57.8	60.6	63.7	64.8	65.1	63.9	63.1	61.4	49.1						
HACT 0.42 GM/M3	2000	47.7	48.9	51.1	54.2	56.3	57.9	59.1	58.7	57.4	53.6	44.8						
(.00042 KG/M3)	2500	42.7	45.4	47.4	50.3	53.1	55.9	57.2	56.2	54.9	48.8	40.1						
NFA 6132. RPM	3150	45.5	48.8	51.8	55.8	58.6	61.6	61.8	61.5	60.4	54.3	45.1						
(642. RAD/SEC)	4000	45.1	48.8	50.5	55.1	58.8	61.4	61.2	61.7	60.2	54.9	43.9						
NFR 6311. RPM	5030	46.8	47.7	50.4	55.8	58.5	61.8	63.1	63.5	62.1	55.4	44.2						
(661. RAD/SEC)	6300	43.6	47.4	49.5	53.6	58.1	60.7	62.8	62.7	61.5	53.8	41.9						
NFB 6823. RPM	8000	41.8	44.4	47.5	52.6	56.4	58.9	60.8	62.8	58.8	51.2	38.3						
(924. RAD/SEC)	10030	37.7	41.4	44.3	50.1	53.5	56.8	58.3	58.6	57.1	47.4	33.7						
NO. OF BLADES 15	12500	34.3	37.6	40.9	46.4	50.5	53.3	54.1	55.3	53.6	42.9	27.5						
FAN TIP SPEED	16000	27.1	31.6	34.8	40.5	44.6	47.5	49.2	49.5	46.7	34.7	18.5						
935. FT/SEC	20000	19.9	25.8	28.8	34.7	39.5	42.2	43.4	43.6	40.9	26.7	9.4						
	25000	9.7	16.5	20.3	26.9	30.8	33.3	34.3	33.1	28.8	12.4							
	31500		4.0	8.5	16.4	20.6	22.0	22.6	20.8	12.7								
	40000					1.2	3.0	3.0										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		60.7	62.3	63.7	64.9	66.4	71.3	72.2	72.2	70.9	67.8	56.9						
		72.4	73.9	75.8	79.3	82.8	84.3	85.1	85.2	83.9	79.8	68.9						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SCALE PRESSURE LEVELS (59. LBS. F. 70 PERCENT REL. HUM. DRY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
S. MI	100	64.0	75.1	74.9	73.7	72.4	73.2	73.4	72.4	76.8	80.5	64.1							116.2
VEHICLE	125	71.2	70.6	74.9	77.4	74.4	76.4	75.4	74.9	78.5	80.5	63.4							112.2
CONFIG	160	71.0	71.4	71.9	72.7	72.6	73.4	75.9	77.2	79.8	81.8	63.9							110.9
LCC SCHEDULE	200	70.2	70.6	74.1	75.7	73.9	75.5	76.5	78.4	80.8	82.3	64.9							111.8
DATE 1/17/75	250	74.3	74.4	75.4	76.2	76.9	76.9	78.6	79.1	80.5	82.6	63.8							112.7
RUN 56/3	315	75.7	76.4	76.4	77.4	77.6	78.2	78.1	79.2	80.2	81.8	63.1							112.8
TAPE	400	73.3	73.6	74.2	74.7	75.4	76.2	77.1	78.2	79.6	81.1	62.4							111.4
BAR 30.2 MG	500	72.6	72.4	72.9	74.2	75.2	76.5	77.9	78.4	79.7	81.6	61.1							111.4
(1018.8. N/M2)	630	75.6	75.4	75.9	76.8	78.2	80.8	81.1	81.9	82.8	83.6	61.1							113.9
TAMB 35. DEG F	800	75.3	75.9	73.9	77.5	77.9	79.7	80.8	81.7	82.7	83.9	61.1							113.9
(272. DEG K)	1000	74.1	74.7	75.2	77.0	78.4	80.5	82.4	83.4	84.2	85.9	60.1							114.8
TAET 21. DEG F	1250	75.4	74.7	76.2	79.5	80.2	82.2	84.1	85.2	85.5	85.1	58.8							114.3
(267. DEG K)	1600	81.1	80.4	81.1	84.8	86.5	88.5	89.8	90.7	90.8	89.7	63.4							121.8
MACT 0.42 GM/M3	2000	74.1	74.2	75.1	81.6	83.5	85.8	87.6	88.6	88.5	87.4	62.1							119.4
(.0842 KG/M3)	2500	71.8	72.7	74.1	78.3	79.2	82.2	83.5	83.8	83.2	79.9	57.1							114.8
NFA 6994. RPM	3150	73.5	74.2	77.5	81.1	84.5	88.8	88.7	88.3	90.4	84.4	61.5							120.2
(732. RAD/SEC)	4000	74.9	76.8	78.4	82.8	86.4	89.4	89.9	90.4	91.1	87.8	63.2							121.8
NFK 7695. RPM	5030	75.4	76.5	78.1	82.2	87.1	90.3	93.5	93.3	93.8	89.8	63.3							123.7
(743. RAD/SEC)	6300	74.1	76.3	77.7	82.3	85.9	89.7	92.8	93.1	93.7	88.9	62.9							123.3
NFB 8023. RPM	8000	73.8	75.8	77.6	82.4	85.7	89.5	91.6	92.9	93.2	86.2	62.1							123.1
(824. RAD/SEC)	10000	71.7	74.5	76.3	81.5	84.4	88.2	91.8	92.8	92.7	87.1	61.9							122.6
NO. OF BLADES 15	12500	71.2	73.4	75.1	80.8	83.8	88.9	89.2	92.2	92.2	86.7	60.9							122.0
FAN TIP SPEED	16000	68.9	70.8	72.9	78.2	80.9	86.7	87.9	91.2	90.4	84.8	59.8							120.8
802. FT/SEC	20000	67.7	69.7	71.5	77.5	81.1	86.5	87.5	90.4	91.8	85.2	59.2							121.8
	25000	64.5	68.5	70.4	74.7	79.9	83.1	85.6	88.2	89.3	83.7	58.8							119.9
	31500	64.7	67.8	69.3	75.5	79.2	82.5	84.9	86.7	87.5	82.4	58.4							119.5
	40000	61.4	64.6	66.4	72.2	74.8	78.8	81.2	82.9	83.4	78.9	69.4							117.8
	50000	58.8	63.1	64.8	64.9	78.2	73.4	76.8	77.2	77.7	74.8	65.8							113.7
	63000	59.8	62.8	64.9	63.7	65.1	67.4	69.5	69.8	69.6	67.7	62.1							109.8
	80000	60.7	62.2	64.9	63.8	63.9	64.1	64.8	64.5	64.1	63.4	61.8							110.8
OVERALL MEASURED		66.3	69.5	70.4	73.6	76.3	79.4	181.5	169.7	183.8	79.6	76.2							133.6
OVERALL CALCULATED		106.3	101.4	102.6	104.1	100.9	111.7	113.9	114.2	114.4	111.8	107.8							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 12 HR. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG [illegible]
LOC SCHENECTADY
DATE 1/17/75
RUN 56/3
TAPE
BAR 30.2 HG (01890. N/M2)
TAMB 30. DEG F (272. DEG K)
TWET 21. DEG F (267. DEG K)
WACT 0.42 GM/M3 (.00042 KG/M3)
NFA 6894. RPM (722. RAD/SEC)
NFK 7095. RPM (743. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 602. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.
50																		
63																		
80																		
100	42.3	59.4	52.8	52.0	50.8	51.4	50.4	49.3	51.6	54.3	54.1							
125	47.5	56.8	55.7	55.7	54.7	54.6	53.1	53.8	54.0	53.9	53.1							
160	47.1	48.5	49.7	50.4	50.9	51.5	53.5	53.9	54.3	54.8	53.4							
200	46.3	47.7	48.8	50.7	52.1	53.9	54.2	55.1	55.2	55.4	54.2							
250	49.9	51.3	53.0	54.2	55.0	54.9	56.1	55.7	55.6	55.5	53.0							
315	51.6	53.2	53.9	55.3	55.7	56.0	55.5	55.6	55.3	54.6	52.0							
400	49.0	50.4	51.6	52.5	53.6	54.0	54.4	54.5	53.9	53.7	51.0							
500	47.7	49.0	50.2	51.9	53.0	54.1	55.1	54.7	54.5	53.8	49.6							
630	51.1	51.9	53.1	55.4	55.9	57.6	58.2	58.1	56.6	54.9	49.3							
800	50.7	52.3	53.0	55.0	55.6	57.2	57.6	57.7	57.2	54.9	49.0							
1000	49.3	50.9	52.1	54.4	55.9	57.8	59.2	59.3	58.5	55.7	47.7							
1250	50.4	50.8	53.0	55.8	57.6	59.5	60.8	60.9	59.6	56.7	47.8							
1600	55.9	56.3	57.8	61.6	63.7	65.6	66.3	66.2	63.9	60.9	50.1							
2000	52.7	53.9	55.6	58.5	60.5	62.6	63.9	63.9	62.1	58.3	48.4							
2500	46.2	48.2	50.4	53.1	56.1	58.9	59.7	58.9	56.6	53.5	42.9							
3150	47.5	51.3	53.5	57.5	61.1	64.4	64.5	63.0	63.4	56.5	46.6							
4000	48.4	51.5	54.0	59.1	62.6	65.4	65.2	64.7	63.5	57.2	47.2							
5000	48.5	50.9	53.4	58.0	63.0	66.0	66.6	67.3	65.1	57.9	46.7							
6300	46.3	50.1	52.3	57.4	61.1	64.7	66.3	66.2	64.8	56.6	44.4							
8000	44.5	48.2	51.0	56.4	59.9	63.4	64.8	64.8	62.8	54.0	40.8							
10000	40.7	45.1	48.1	54.3	57.8	60.6	63.3	62.1	60.1	50.2	36.7							
12500	37.3	41.6	44.6	50.9	54.0	57.0	58.4	59.6	56.6	45.9	30.0							
16000	30.4	34.8	38.6	44.8	47.8	51.2	53.2	54.3	49.7	37.5	19.5							
20000	23.1	28.3	32.1	39.2	43.3	46.2	47.7	47.8	43.6	29.4	6.4							
25000	13.2	19.3	23.8	31.6	35.3	37.8	38.5	37.6	32.5	18.9								
31500		7.2	12.2	20.4	24.6	27.1	27.1	24.2	10.7									
40000				2.1	5.5	8.4	7.5	2.7										
50000																		
63000																		
80000																		
OVERALL CALCULATED	62.7	65.1	66.5	69.4	71.9	74.5	75.7	75.2	73.7	69.1	63.4							
PNDB	74.5	76.4	78.4	82.3	85.2	87.8	89.3	88.5	86.9	81.4	72.7							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SCALE SPL'S 159. DEG. F. 70 PERCENT REL. HUM. (DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	53																		
RADIAL 17. FT.	80																		
(5. MI	100	69.3	72.4	73.4	73.7	74.1	74.7	74.6	75.7	79.5	83.9	87.4							112.8
VEHICLE B-55	125	75.8	77.9	77.9	77.6	76.9	77.2	78.6	80.2	80.7	83.8	87.1							114.2
CONFIG	160	73.8	74.4	74.7	75.7	75.3	75.9	79.1	80.4	82.7	84.8	87.4							114.2
LOC SCHENECTADY	200	73.8	73.4	73.9	75.2	76.7	77.9	79.6	81.7	83.2	86.1	88.6							115.2
DATE 1/17/75	250	77.5	78.4	78.6	80.7	80.6	80.9	82.9	84.1	84.7	86.8	88.1							116.9
RUN 55/4	315	78.6	78.9	79.1	80.2	79.9	80.9	81.4	82.2	83.2	85.1	86.9							115.9
TAPE	400	76.5	77.1	76.9	77.4	78.1	78.9	80.1	80.9	82.5	84.9	85.1							114.5
BAR 30.2 HG	500	74.9	75.4	75.4	77.5	77.9	79.5	80.6	82.2	84.2	83.9	84.9							114.7
(01890. N/M2)	630	77.7	77.2	78.7	80.2	80.7	81.7	83.4	84.2	85.0	85.1	84.6							116.4
TAMB 30. DEG F	800	78.2	78.2	78.2	77.7	80.7	81.7	83.1	83.9	85.0	85.1	84.1							116.7
(272. DEG K)	1000	76.4	77.4	77.7	79.7	80.9	82.2	84.6	85.4	85.7	85.1	83.1							116.8
TRET 21. DEG F	1250	75.3	77.2	78.9	80.5	82.2	84.0	85.9	86.4	86.7	86.8	82.6							117.8
(267. DEG K)	1600	78.4	78.4	80.4	83.1	84.7	85.8	88.1	88.4	88.4	85.9	82.1							119.6
MACT 0.42 GM/M3	2000	84.2	83.2	85.1	87.4	89.0	91.3	93.8	94.9	95.0	90.9	87.8							125.3
(.00042 KG/M3)	2500	75.1	75.9	77.9	80.3	82.5	84.2	86.0	86.3	86.5	81.9	80.3							117.4
NFA 7658. RPM	3150	75.1	77.2	78.4	83.1	85.5	87.2	87.0	89.0	89.0	85.1	81.8							119.9
(802. RAD/SEC)	4000	79.5	81.6	83.7	87.5	90.4	92.6	93.1	95.2	94.6	90.5	87.2							125.4
NFK 7881. RPM	5000	77.9	79.0	81.4	86.5	89.3	91.5	94.0	94.6	94.5	89.7	86.8							125.0
(825. RAD/SEC)	6300	79.2	80.5	83.0	87.5	90.4	92.5	96.7	96.6	97.2	90.3	89.4							127.1
NFD 8823. RPM	8000	76.9	79.6	82.4	86.6	89.2	91.6	94.4	95.7	94.9	89.9	85.1							125.7
(924. RAD/SEC)	10000	75.6	78.0	81.3	86.0	88.4	91.9	94.8	95.3	94.7	89.3	84.6							125.6
NO. OF BLADES 15	12500	74.8	76.4	79.1	84.6	87.6	91.1	92.9	94.9	94.7	89.0	83.9							125.1
FAN TIP SPEED	16000	72.2	74.6	77.2	82.5	85.9	88.0	91.9	93.7	92.9	87.0	83.3							123.8
869. FT/SEC	20000	72.3	73.7	76.2	81.7	84.9	88.3	91.2	94.1	94.0	87.7	82.2							124.5
	25000	70.8	72.5	75.9	81.0	84.4	88.8	90.9	93.5	92.8	86.7	81.4							124.3
	31500	69.6	71.1	74.6	80.3	83.2	86.0	88.9	91.5	90.7	85.4	79.2							123.4
	40000	66.2	67.6	71.5	76.7	79.5	82.3	85.5	86.6	86.9	81.9	72.7							120.8
	50000	64.6	63.6	67.4	70.5	73.7	76.7	81.3	81.2	81.2	77.6	67.5							117.5
	63000	64.7	61.3	65.2	64.7	67.3	69.9	73.5	72.5	72.9	70.2	63.8							112.6
	80000	66.8	64.2	65.4	63.3	64.4	64.4	66.3	65.3	65.6	64.4	62.5							111.8
OVERALL MEASURED																			
OVERALL CALCULATED		91.3	92.0	93.7	97.2	99.6	101.9	104.5	105.7	105.6	101.4	99.4							130.5
	PNDB	134.1	134.8	136.6	139.9	142.2	144.2	146.2	147.0	147.2	143.6	141.8							

ORIGINAL PAGE IS
OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	66. (1.15)	79. (1.24)	91. (1.41)	91. (1.53)	104. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FC																	
AT																	
FC																	
100	65.6	69.7	71.3	72.0	72.6	72.9	72.4	72.6	75.1	77.3	77.3						
125	72.0	75.1	75.7	75.7	75.2	75.4	76.3	77.1	76.2	77.2	76.2						
160	69.9	71.5	72.4	73.1	74.2	74.1	74.8	77.2	78.1	78.3	76.9						
200	69.8	71.4	71.4	73.2	75.1	75.1	77.2	78.1	78.5	79.1	77.9						
250	73.5	75.3	76.2	78.7	78.7	78.9	80.3	80.7	79.9	79.7	77.2						
315	74.4	75.7	76.7	78.1	77.9	78.8	78.7	78.6	78.3	77.8	75.8						
400	72.3	73.9	74.3	75.7	76.1	76.7	77.4	77.3	77.4	77.4	73.9						
500	70.5	72.2	72.7	75.2	75.8	77.1	77.8	78.4	79.8	76.3	73.3						
630	73.1	73.7	76.9	77.9	78.4	79.3	79.5	80.3	79.6	77.4	72.8						
800	73.3	74.5	75.3	77.2	78.3	79.2	80.1	79.9	79.5	77.1	72.0						
1000	71.6	73.6	74.9	77.1	78.4	79.6	81.4	81.3	80.0	76.9	70.7						
1250	71.9	73.3	75.7	77.8	79.6	81.2	82.5	82.1	80.9	77.2	69.8						
1600	74.2	75.3	77.0	80.1	82.0	82.8	84.6	83.9	82.6	77.2	68.9						
2000	78.7	78.9	81.0	84.7	86.3	88.1	90.1	90.2	88.4	81.8	73.9						
2500	79.5	81.4	84.1	87.1	89.4	90.9	92.2	91.4	89.8	82.5	76.1						
3150	82.1	82.3	84.8	89.5	92.1	93.6	92.8	93.8	89.9	85.3	76.9						
4000	83.2	86.3	89.2	93.6	96.6	96.8	98.5	97.4	97.0	89.9	81.2						
5000	81.1	83.4	86.7	91.3	95.3	97.3	99.1	98.5	96.8	88.7	79.2						
6300	81.4	84.1	87.3	92.6	95.6	97.5	101.1	99.7	98.3	90.1	76.9						
8000	87.9	91.9	95.8	97.5	99.4	95.7	97.4	97.5	94.5	85.7	73.8						
10000	84.5	88.6	92.8	96.5	91.0	94.3	96.3	95.3	92.1	82.4	69.4						
12500	80.9	84.6	88.6	94.9	98.0	91.3	92.1	92.3	89.1	78.2	63.0						
16000	73.7	78.8	82.8	89.0	92.9	94.5	97.2	96.8	92.2	80.7	63.0						
20000	67.7	72.3	76.8	83.5	87.0	89.9	91.4	91.8	86.6	71.9	59.4						
25000	67.5	73.3	79.3	85.9	89.8	91.3	93.8	92.9	86.0	68.9							
31500	73.5	80.5	87.5	95.1	98.6	100.6	101.1	99.0	90.0								
40000				96.6	99.5	101.9	101.7	96.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.6	67.3	69.3	72.6	74.8	76.6	78.3	78.0	74.3	71.0	66.8						
PNDB	78.2	79.8	82.3	86.1	88.5	90.3	91.3	91.4	88.5	83.4	76.0						

SIDELINE 200. FT. (60.96 M)
VEHICLE RUNS
CONFIG
LOC SCHENECTADY
DATE 1/17/75
RUN 5014
TAPE
BAR 30.2 MB (1018.9 N/M2)
TAMB 30. DEG F (272. DEG K)
TWET 21. DEG F (247. DEG K)
HACT 0.42 GM/M3 (.00042 KG/M3)
NFA 7698. RPM (802. RAD/SEC)
NFK 7881. RPM (825. RAD/SEC)
NF3 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 669. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 12 HR. 10.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. 10.	0. 10.	0. 10.	0. 10.	0. 10.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.8	72.1	72.9	73.2	73.6	73.9	74.6	75.2	78.4	83.6	87.6							112.4
VEHICLE RPM	125	75.5	78.6	78.1	77.9	77.1	77.2	78.4	80.4	81.0	84.1	87.1							114.3
CONFIG	160	74.1	74.9	74.7	75.9	75.9	76.2	78.9	80.2	82.0	85.1	87.1							114.1
LPC SCHEDULE	200	73.5	73.4	74.2	75.4	76.9	79.2	79.9	81.4	82.5	85.8	88.1							115.0
DATE 1/17/75	250	77.3	77.9	80.1	80.2	80.4	81.1	82.9	84.1	85.0	84.8	87.8							117.0
RUN 56/5	315	78.6	78.6	79.9	80.4	80.4	80.9	81.1	81.9	83.0	84.4	86.6							115.8
TAPE	400	76.8	76.9	77.7	78.4	78.4	79.2	80.1	81.4	82.6	84.6	86.1							114.7
BAR 30.2 HG	500	79.1	79.2	79.9	77.5	77.9	79.2	81.1	82.2	82.5	84.4	84.9							114.5
(01890. N/M2)	630	77.7	77.4	78.9	80.2	80.7	82.9	83.8	84.2	84.3	85.1	84.6							116.4
TAMB 30. DEG F	800	77.4	78.2	78.2	80.3	83.7	82.2	83.4	84.4	84.5	85.1	84.1							118.3
(272. DEG K)	1000	76.7	77.2	77.4	80.0	80.7	82.7	84.6	85.4	86.0	85.4	83.1							116.9
TAET 21. DEG F	1250	77.4	77.4	79.2	81.6	82.5	84.7	86.1	86.4	86.5	85.6	83.1							117.9
(267. DEG K)	1600	79.2	79.4	80.1	82.6	84.0	85.8	88.1	88.9	88.5	86.2	82.4							119.8
WACT 0.42 GM/M3	2000	84.2	83.2	84.9	84.1	89.5	91.8	93.8	95.6	95.2	91.6	87.6							125.7
(.00042 KG/M3)	2500	74.9	75.4	77.4	80.3	83.0	84.5	86.5	86.8	86.2	82.1	80.3							117.6
NFA 7483. RPM	3150	75.4	77.2	78.5	82.6	85.7	87.2	87.2	89.0	89.9	85.8	81.5							120.0
(802. RAD/SEC)	4000	79.8	81.3	83.4	87.5	90.2	92.4	93.6	95.4	94.8	91.3	87.2							129.6
NFK 7887. RPM	5000	77.7	78.5	81.4	85.7	88.8	91.8	94.0	94.6	95.0	90.5	84.6							125.1
(826. RAD/SEC)	6300	79.2	80.0	83.2	87.8	90.6	93.2	97.2	96.8	97.4	91.1	85.9							127.4
NFD 8823. RPM	8000	76.9	78.8	81.9	87.1	89.7	92.5	94.4	95.9	95.4	90.2	84.8							126.0
(924. RAD/SEC)	10000	75.8	77.7	80.3	86.0	88.9	9 .7	94.0	95.5	94.7	89.6	84.6							125.5
NO. OF BLADES 15	12500	75.3	76.2	79.1	84.1	88.1	91.1	92.9	94.9	94.9	89.2	83.4							125.2
FAN TIP SPEED	16000	72.7	74.3	77.2	82.5	35.7	88.7	91.7	93.9	92.9	87.5	82.8							123.9
869. FT/SEC	20000	72.1	73.2	76.7	82.0	35.6	88.3	91.2	94.6	93.7	87.9	82.0							124.6
	25000	71.3	72.0	75.6	81.0	84.4	87.6	90.6	92.5	92.8	87.5	81.5							124.1
	31500	69.3	70.8	74.6	80.6	83.0	86.6	89.1	91.5	91.0	85.9	78.9							123.6
	40000	66.4	67.1	70.6	76.4	79.3	82.5	85.5	86.9	86.7	82.4	72.7							120.8
	50000	64.9	64.1	67.1	70.5	74.5	77.2	80.8	81.2	81.4	78.1	67.2							117.5
	63000	65.0	61.0	65.2	65.0	67.8	70.4	73.5	73.0	73.4	78.9	63.3							112.9
	80000	66.8	63.5	65.2	63.3	64.4	64.9	66.3	65.5	65.9	64.6	62.0							111.8
OVERALL MEASURED																			
OVERALL CALCULATED		91.3	91.9	93.7	97.3	99.8	102.2	104.6	105.9	105.8	101.8	99.3							130.6
	PNDB	104.1	104.6	106.5	109.9	112.5	114.2	116.5	117.2	117.3	114.1	111.0							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG
LOC SCHENECTADY
DATE 1/17/75
RUN 56/5
TAPE
BAR 30.2 HG (01890. N/M2)
TAMB 30. DEG F (272. DEG K)
THET 21. DEG F (267. DEG K)
MACT 0.42 GM/M3 (.00042 KG/M3)
NFA 7663. RPM (802. RAD/SEC)
NFK 7887. RPM (826. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 669. FT/SEC

FREQ.	53. (0.92)	64. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	45.1	49.4	50.F	51.5	52.1	52.2	52.4	52.1	54.1	57.0	57.6						
125	51.8	55.8	56.0	56.2	55.5	55.4	56.1	57.3	56.5	57.4	56.9						
160	50.2	52.0	52.4	54.1	54.2	54.5	56.5	56.9	57.3	56.3	56.7						
200	49.6	50.4	52.1	53.5	55.1	57.2	57.4	58.1	57.7	58.9	57.4						
250	53.2	54.8	57.7	58.2	58.5	59.1	60.3	60.7	60.1	59.7	57.0						
315	54.4	55.5	57.4	58.3	58.4	58.8	58.5	58.4	58.0	57.6	55.5						
400	52.6	53.6	55.1	56.3	56.3	57.0	57.4	57.8	56.9	57.2	54.8						
500	50.7	51.8	53.2	55.2	55.A	56.9	58.3	58.4	57.3	56.9	53.3						
630	53.1	53.9	56.1	57.9	58.4	59.8	60.7	60.3	58.9	57.4	52.8						
800	52.7	54.5	55.3	57.5	58.3	59.7	60.2	60.4	59.0	57.1	52.0						
1000	51.6	53.4	54.4	57.4	58.2	60.1	61.4	61.3	60.3	57.2	50.7						
1250	52.4	53.5	56.0	58.3	59.9	62.0	62.8	62.1	60.A	57.2	50.3						
1600	54.0	55.3	56.A	59.9	61.2	62.A	64.6	64.4	62.4	57.4	49.1						
2000	54.7	5A.9	61.3	65.0	66.5	68.6	70.1	70.9	6A.9	62.8	53.9						
2500	49.2	50.9	53.6	57.1	59.9	61.2	62.7	61.9	59.6	52.8	46.1						
3150	49.3	52.3	54.5	59.0	62.2	63.6	63.9	63.A	62.9	55.8	46.6						
4000	53.2	56.0	59.0	63.A	67.1	68.4	69.0	69.7	67.2	60.7	51.2						
5000	50.8	52.9	56.7	61.5	64.8	67.5	69.1	68.5	67.1	59.4	48.0						
6300	51.4	53.6	57.8	62.9	65.9	68.2	71.6	69.9	68.5	58.8	47.4						
8000	47.A	51.2	55.3	61.1	63.9	66.4	67.6	67.A	65.C	56.0	43.6						
10000	44.7	48.4	52.1	58.5	61.5	64.1	65.6	65.6	62.1	52.7	39.4						
12500	41.4	44.3	48.6	54.4	58.5	61.3	62.1	62.3	59.3	48.4	32.5						
16000	34.2	38.3	42.8	49.C	52.6	55.2	57.0	57.0	52.2	40.2	22.5						
20000	27.4	31.8	37.3	43.7	47.9	49.9	51.4	52.1	46.4	32.2	9.2						
25000	18.0	22.8	29.0	35.9	39.8	42.3	43.5	41.8	36.0	19.6							
31500	3.2	10.2	17.5	25.6	28.4	31.4	31.3	29.0	20.2	0.3							
40000				6.3	10.0	12.1	11.7	6.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.6	67.2	69.4	72.8	75.0	76.9	78.4	78.3	76.4	71.3	66.7						
PNDB	78.2	79.8	82.2	86.1	88.8	90.3	91.6	91.6	89.6	83.9	76.0						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	71.7	73.7	76.4	78.0	78.1	76.1	72.5	68.8	71.7	74.5	76.9							109.3
125	66.7	69.4	71.9	69.7	70.6	67.9	67.0	71.5	72.2	72.3	75.4							104.8
160	64.5	64.7	65.4	66.5	66.1	66.2	68.5	70.0	72.0	73.8	75.9							103.6
200	63.7	64.2	64.7	66.0	67.5	68.9	69.5	71.2	72.7	74.8	76.7							104.4
250	67.2	67.9	68.6	69.5	69.8	70.4	71.5	71.7	72.7	74.0	75.4							105.2
315	69.5	70.7	70.9	71.5	71.6	71.9	71.8	72.5	73.0	73.8	74.7							106.0
400	66.5	67.7	67.9	69.2	69.3	69.9	71.0	71.5	72.2	73.0	73.9							104.5
500	66.0	67.2	67.7	69.0	69.3	70.4	71.3	72.5	73.5	74.0	73.9							105.0
630	69.8	70.2	71.4	72.5	73.1	74.2	75.0	76.3	76.0	75.8	74.9							108.1
800	69.6	70.0	70.2	71.5	72.6	74.2	74.8	76.3	77.2	76.8	74.7							108.2
1000	68.1	69.5	69.7	72.0	73.3	76.2	77.5	78.5	79.7	79.8	74.7							110.1
1250	75.6	74.7	75.7	79.3	80.6	83.5	84.5	85.5	86.2	87.6	80.2							117.1
1600	72.9	72.2	72.7	75.9	78.4	80.0	81.7	82.2	82.7	82.3	76.2							113.6
2000	69.9	70.8	71.6	74.6	75.9	77.7	79.5	80.2	80.5	80.3	76.2							111.6
2500	67.8	69.0	71.1	73.1	75.4	77.7	81.2	82.4	82.7	79.1	73.4							112.5
3150	66.3	68.7	69.6	73.4	75.9	78.7	79.9	81.4	82.7	82.3	75.3							112.6
4000	70.2	71.4	71.7	74.3	79.8	83.4	83.5	85.5	86.6	85.4	79.0							116.5
5000	68.4	69.1	70.6	74.5	77.8	81.8	84.4	85.9	85.7	84.4	77.4							116.0
6300	68.1	69.3	70.7	74.6	77.8	81.7	83.9	85.7	85.9	84.3	77.7							115.9
8000	68.4	68.1	69.9	73.9	77.1	80.5	83.0	84.8	85.7	83.4	76.9							115.3
10000	65.0	66.5	68.3	73.6	75.8	80.2	82.2	84.4	85.6	82.2	75.7							114.9
12500	64.5	65.5	66.9	71.2	75.0	78.6	81.3	83.5	84.7	81.9	75.2							114.2
16000	62.4	63.6	65.0	69.3	73.1	76.7	79.3	83.0	83.4	79.9	73.9							113.2
20000	60.7	62.0	63.5	69.3	72.6	76.0	78.1	81.5	82.4	78.9	72.5							112.5
25000	59.7	60.6	61.9	67.3	70.6	74.1	76.0	79.3	79.8	76.4	70.3							110.8
31500	57.5	58.9	60.1	66.8	69.9	73.7	75.0	78.6	79.2	76.1	68.2							111.1
40000	55.9	55.9	57.9	62.5	65.7	69.3	71.9	74.0	75.1	72.4	62.2							108.4
50000	56.5	54.8	57.4	58.8	60.6	63.9	67.2	67.8	68.7	67.5	57.5							104.7
63000	56.4	53.3	56.9	55.8	57.0	58.4	60.6	60.6	61.1	60.4	54.9							101.4
80000	58.0	58.8	56.2	55.1	55.1	55.1	56.0	55.4	55.3	54.5	53.6							102.6
OVERALL MEASURED																		
OVERALL CALCULATED	82.8	83.5	84.7	87.4	89.5	92.2	93.9	95.6	96.3	95.0	89.9							120.7
PNDB	94.4	95.4	96.3	99.7	102.3	105.2	106.2	107.8	108.6	107.7	102.4							

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG ~~4675-11~~
LOC SCHENECTADY
DATE 1/17/75
RUN 56/6
TAPE
BAR 30.2 HG (101890. N/M2)
TAMB 30. DEG F (272. DEG K)
TWET 21. DEG F (267. DEG K)
HACT 0.42 GM/M3 (.00042 KG/M3)
NFA 5366. RPM (562. RAD/SEC)
NFK 5523. RPM (578. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 468. FT/SEC

FULL SCALE DATA PREDICTION PROGRAM

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

PROG. DATE = MONTH 3 DAY 12 HR. 16.3

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.1	51.0	54.3	56.3	56.5	54.4	50.3	45.7	47.3	48.0	46.9						
125	43.3	46.6	49.6	48.0	48.9	46.1	44.7	48.4	47.7	45.6	45.2						
160	40.5	41.8	43.2	44.2	44.3	44.3	46.2	48.8	47.3	47.0	45.5						
200	39.8	41.2	42.3	44.0	45.7	46.9	47.1	47.9	48.0	47.8	46.0						
250	43.2	44.9	46.3	47.5	47.9	48.3	49.0	48.3	47.8	46.9	44.5						
315	45.3	47.5	48.4	48.4	49.6	49.8	49.2	49.0	48.0	49.5	43.6						
400	42.2	44.4	45.3	47.1	47.3	47.7	48.3	47.9	47.1	45.6	42.6						
500	41.7	43.8	45.0	46.7	47.2	48.1	48.5	48.8	48.2	46.5	42.4						
630	45.3	46.7	48.6	50.2	50.9	51.8	52.1	52.4	50.6	48.0	43.1						
800	44.9	46.3	47.3	49.0	50.2	51.7	51.7	52.3	51.7	48.8	42.5						
1000	43.3	45.7	46.6	48.4	50.9	53.6	54.3	54.4	54.0	51.6	42.2						
1250	50.6	50.8	52.5	56.6	58.0	60.7	61.2	61.2	60.3	59.1	47.6						
1600	47.5	48.1	49.3	52.9	55.5	57.0	58.2	57.7	56.9	53.6	42.9						
2000	44.4	46.4	48.1	51.5	53.0	54.6	55.8	55.5	54.1	51.3	42.4						
2500	42.2	44.5	47.4	49.9	52.3	54.4	57.3	57.5	56.1	49.7	39.2						
3150	40.3	43.9	45.5	49.8	52.5	55.1	55.7	56.1	54.7	52.4	40.4						
4000	43.6	46.1	47.2	52.4	56.0	59.3	58.9	59.8	59.0	54.9	43.0						
5000	41.5	43.5	45.9	50.3	53.7	57.5	59.6	59.9	57.8	53.4	40.8						
6300	40.3	42.6	45.3	49.7	53.0	56.7	58.2	58.8	57.0	52.0	39.2						
8000	37.2	40.5	43.3	47.9	51.3	54.4	56.2	56.6	55.3	49.2	35.6						
10000	33.9	37.2	40.1	46.1	48.4	52.6	53.7	54.4	53.1	45.3	30.5						
12500	30.6	33.6	36.4	41.4	45.5	48.8	50.5	50.9	49.0	41.1	24.3						
16000	23.9	27.6	30.6	35.8	40.0	43.2	44.8	46.1	42.7	32.7	13.9						
20000	16.1	20.6	24.1	31.0	34.7	37.6	38.3	38.9	35.1	23.1							
25000	6.4	11.3	15.3	22.2	28.0	28.8	28.9	28.6	23.0	8.8							
31500			3.0	11.7	19.3	18.4	17.2	16.1	8.4								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.5	59.3	61.3	64.0	65.8	67.9	68.8	69.6	67.9	64.7	56.6						
PNDB	68.0	70.3	71.9	75.9	78.6	81.3	81.7	82.2	81.2	77.6	67.0						

SIDELINE 200. FT. (60.96 M)

VEHICLE R-55

CONFIG ~~35-5~~

LOC SCHENECTADY

DATE 1/17/75

RUN 56/6

TAPE

BAR 30.2 HG (101850. N/M2)

TAMB 30. DEG F (272. DEG K)

TDET 21. DEG F (267. DEG K)

HACT 0.42 GM/M3 (.00042 KG/M3)

NFA 5366. RPM (562. RAD/SEC)

NFK 5523. RPM (578. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 486. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 3 DAY 12 HR. 16.0

MODEL SOUND PRESSURE LEVELS (59. DEG, F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 0. 0. 0. 0. 0. 0. (0. 0. 0. 0. 0. 0. 0.)	PWL
50													
63													
80													
100	71.0	73.7	76.9	78.5	78.3	77.1	73.3	68.5	72.7	74.8	76.7		109.7
125	65.5	68.9	71.7	70.0	70.6	68.4	67.5	71.3	72.2	72.3	75.4		104.8
160	64.5	65.4	65.2	66.5	66.3	66.6	68.8	70.3	72.2	73.8	76.2		103.8
200	64.0	64.2	65.2	66.2	67.3	68.9	70.0	71.2	72.2	74.5	76.4		104.3
250	67.5	68.2	68.9	69.7	69.8	70.1	71.3	72.2	72.7	73.5	75.4		105.2
315	69.5	70.7	70.4	71.7	71.3	71.9	71.8	71.8	72.5	73.3	74.9		105.9
400	65.8	67.7	68.4	69.5	69.6	70.4	70.5	71.8	72.5	73.0	74.4		104.7
500	65.1	67.0	67.2	68.5	68.8	69.7	71.3	72.5	73.7	74.0	74.2		104.9
630	69.6	70.0	71.4	72.5	72.6	73.7	75.5	76.0	76.0	76.3	74.4		108.0
800	69.2	70.0	70.2	71.5	72.4	73.7	75.3	76.0	77.0	77.3	74.4		108.2
1000	67.6	68.5	68.7	71.0	72.4	75.0	76.8	78.5	80.0	80.1	74.9		109.9
1250	73.4	72.3	73.4	76.6	79.4	81.5	83.0	84.0	85.7	86.3	79.7		115.8
1600	70.1	70.0	71.2	74.1	75.9	78.5	79.9	80.5	81.0	81.6	75.4		112.0
2000	65.9	66.8	67.7	70.2	71.9	73.3	75.5	76.0	76.5	76.3	72.7		107.5
2500	69.4	70.0	71.1	73.7	77.9	80.8	81.7	84.5	86.5	84.8	77.9		115.3
3150	67.8	69.8	70.6	74.2	77.9	80.7	81.4	82.9	84.7	84.6	77.1		114.5
4000	69.2	71.9	72.7	76.4	80.9	84.1	85.6	87.3	88.6	86.2	80.0		118.0
5000	68.7	69.6	71.4	75.6	79.6	82.6	85.5	85.9	86.8	84.9	78.2		116.8
6300	67.6	69.6	71.5	75.4	79.3	82.0	84.7	85.4	86.9	84.3	77.7		116.4
8000	64.2	67.4	68.0	72.7	76.7	79.8	81.8	83.1	83.7	80.4	75.2		113.8
10000	65.3	65.3	66.1	73.1	77.1	80.5	82.5	84.7	86.2	82.8	76.5		115.3
12500	64.5	66.0	66.7	71.7	75.5	78.9	81.6	83.8	85.7	81.5	75.5		114.6
16000	62.5	64.7	64.3	69.3	73.7	76.8	79.4	82.3	83.7	80.0	74.4		113.1
20000	61.8	64.3	63.1	68.6	72.1	75.5	78.2	81.0	83.2	79.2	72.6		112.0
25000	59.3	62.9	61.9	67.8	71.4	74.1	76.8	78.6	80.1	77.5	70.4		111.0
31500	57.8	61.7	59.9	66.9	70.5	73.6	75.3	77.9	79.0	75.6	68.3		110.9
40000	55.9	57.0	57.7	62.3	66.0	69.4	72.2	73.3	75.2	72.2	61.0		108.3
50000	56.4	57.2	57.2	58.2	61.5	64.3	67.2	67.4	69.0	67.3	57.6		104.8
63000	56.8	54.7	57.8	55.6	56.6	58.5	60.5	60.2	61.9	60.7	55.0		101.6
80000	57.3	56.4	56.3	54.9	55.2	55.2	56.1	55.2	55.4	54.4	53.4		102.4
OVERALL MEASURED													
OVERALL CALCULATED	81.9	83.1	84.3	87.0	89.8	92.3	94.1	95.6	97.0	95.2	90.2		120.9
PNDB	93.8	95.4	96.4	99.5	102.9	105.8	107.8	108.5	109.7	108.2	103.0		

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 12 HR. 16.0

MODEL SOUND PRESSURE LEVELS (REF. LEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.3	51.3	54.8	56.4	56.7	55.4	51.1	45.4	48.3	48.2	48.6						
125	49.7	48.1	49.5	48.2	48.9	48.6	48.2	48.1	47.7	45.6	45.2						
160	43.6	42.5	42.9	44.6	44.6	44.8	46.4	47.0	47.6	47.0	45.7						
200	43.0	41.2	42.8	44.3	45.5	46.9	47.6	47.9	47.5	47.6	45.7						
250	43.4	45.1	46.5	47.7	47.9	48.1	48.7	48.8	47.8	46.4	44.5						
315	45.3	47.5	47.9	49.6	49.3	49.8	49.2	48.2	47.5	46.0	43.8						
400	42.5	44.4	45.8	47.3	47.5	48.2	47.8	48.1	47.4	45.8	43.1						
500	41.7	43.6	44.5	46.3	46.7	47.4	48.5	48.8	48.5	46.5	42.6						
630	45.1	46.5	48.7	50.2	50.4	51.3	52.6	52.2	50.6	48.6	42.6						
800	44.7	46.4	47.3	49.1	50.0	51.2	52.2	52.0	51.5	49.3	42.3						
1000	42.6	44.7	45.7	48.4	49.9	52.3	53.7	54.4	54.3	51.9	42.5						
1250	48.4	48.3	50.3	53.9	56.8	58.7	59.7	59.7	59.6	57.9	46.9						
1600	41.9	45.9	47.8	51.9	53.2	55.6	56.8	56.0	54.9	52.9	42.2						
2000	43.4	42.5	44.1	47.1	47.0	50.1	51.8	51.3	50.1	47.3	38.9						
2500	42.7	45.5	47.4	50.4	54.8	57.4	57.8	56.9	59.8	55.5	43.7						
3150	41.6	44.9	46.6	50.6	54.5	57.1	57.2	57.7	57.7	54.7	42.2						
4000	42.7	46.6	48.3	52.4	57.0	60.1	60.9	61.5	61.0	55.6	44.0						
5000	41.8	44.0	46.7	51.3	55.7	58.6	60.6	59.9	58.8	53.9	41.8						
6300	39.9	43.2	46.1	50.4	54.6	57.0	59.0	58.6	58.0	52.0	39.2						
8000	35.0	39.8	41.4	46.7	49.4	53.7	55.0	54.9	53.3	48.2	33.9						
10000	34.2	37.0	39.9	42.6	49.7	52.9	54.0	54.7	53.7	45.0	31.3						
12500	30.6	34.2	36.2	42.0	46.0	49.1	50.8	51.2	50.1	40.8	24.6						
16000	23.9	28.7	29.9	35.9	40.5	43.3	44.7	45.4	43.6	32.7	14.0						
20000	16.2	22.9	23.7	30.3	34.2	37.2	38.4	38.5	35.9	23.4							
25000	6.0	13.7	15.4	22.7	26.8	28.9	29.7	27.9	23.3	9.8							
31500		1.1	2.8	11.7	15.9	18.2	17.5	15.4	8.2								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.6	58.8	61.0	63.6	65.9	68.0	68.8	69.0	66.6	64.9	56.6						
PNDB	67.2	70.2	72.1	75.6	79.2	81.7	82.5	82.9	82.3	77.9	67.6						

SIDELINE 200. FT. (60.96 M)

VEHICLE P-55

CONFIG

LOC SCHENECTADY

DATE 1/17/75

RUN 57/1

TAPE

BAR 30.2 HG (01890. N/M2)

TAMB 31. DEG F (273. DEG K)

TWET 22. DEG F (268. DEG K)

HACT 0.55 GM/M3 (.00055 KG/M3)

NFA 5375. RPM (563. RAD/SEC)

NFK 5526. RPM (579. RAD/SEC)

NFB 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 469. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 12 HR. 16.0

OVERALL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	33. (0.82)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	75.5	75.9	74.4	75.7	74.4	70.9	69.6	69.4	72.5	74.6	80.1							100.7
125	73.0	70.1	72.4	71.9	72.1	70.9	71.6	74.2	74.7	74.6	79.1							107.5
160	69.3	68.9	69.1	69.9	70.1	69.9	73.4	73.4	75.2	76.1	79.6							107.4
200	69.9	68.4	69.9	69.7	70.9	73.7	74.6	75.7	77.0	76.6	81.1							109.0
250	70.6	71.4	72.1	72.9	73.6	73.4	74.9	75.6	76.2	76.3	79.8							109.9
315	72.8	73.4	73.6	74.7	74.4	75.2	76.4	75.9	76.2	77.8	79.4							109.6
400	73.3	70.6	71.2	72.5	72.6	72.7	74.4	74.9	75.5	77.1	78.4							108.1
500	69.1	69.9	70.4	71.7	72.2	73.5	74.9	75.9	76.5	77.9	77.9							108.3
630	72.7	72.9	74.2	75.8	75.7	77.0	78.4	78.9	79.0	79.4	77.6							111.0
800	72.7	72.9	73.2	74.2	75.2	76.0	77.6	78.4	79.3	79.9	77.6							110.7
1000	73.4	71.7	71.9	74.2	75.2	77.0	79.4	80.7	82.0	81.9	77.4							112.1
1250	72.0	71.5	72.9	74.8	77.7	79.0	81.1	81.7	83.0	83.9	78.1							113.0
1600	75.5	76.5	77.9	80.6	84.5	85.3	86.6	86.4	88.0	88.7	80.6							116.8
2000	69.5	69.7	71.4	73.6	75.0	77.3	78.8	79.2	79.5	78.7	75.8							110.7
2500	69.7	70.0	71.4	73.9	76.0	78.0	79.1	81.4	83.3	81.2	75.9							112.5
3150	73.6	75.2	76.3	79.9	83.0	86.5	88.0	87.6	90.7	88.6	81.8							119.9
4000	72.0	73.5	75.0	80.1	82.4	85.2	87.9	88.2	89.1	87.0	80.5							119.2
5000	73.7	74.3	76.1	81.8	84.1	86.3	90.1	90.1	90.8	87.7	81.4							120.8
6300	72.5	74.3	76.0	80.3	82.9	86.2	89.5	89.8	90.0	86.8	80.4							120.3
8000	69.0	71.1	72.4	77.4	80.0	83.5	86.2	87.0	87.2	83.2	78.1							117.4
10000	69.0	71.3	72.8	78.3	80.9	84.2	87.0	88.6	89.7	85.3	78.9							119.1
12500	69.1	70.2	72.4	77.2	80.6	82.7	85.7	86.0	86.5	84.3	78.5							118.3
16000	63.8	67.4	69.2	74.3	77.7	80.5	83.5	85.0	86.5	82.3	76.6							116.5
20000	65.1	66.5	68.8	74.0	77.4	80.1	83.3	85.0	87.0	82.5	76.3							117.0
25000	64.4	65.8	67.7	72.5	76.0	78.4	81.2	83.3	84.4	80.8	74.1							115.3
31500	63.1	64.4	65.7	72.1	75.0	77.6	80.2	82.3	82.8	79.2	72.3							115.1
40000	61.5	61.2	63.2	68.5	70.6	73.6	77.0	77.7	78.5	75.8	68.3							112.4
50000	63.2	61.4	63.2	64.9	66.8	69.3	72.6	72.1	73.6	71.4	62.1							109.6
63000	64.3	60.9	64.0	62.8	63.9	64.5	66.3	65.8	66.5	65.3	60.9							107.4
80000	66.4	63.1	65.0	62.4	63.0	63.8	63.9	63.1	62.2	62.7	61.4							110.5
OVERALL MEASURED																		
OVERALL CALCULATED	85.7	86.2	87.3	90.7	93.1	95.4	98.0	98.8	99.8	97.6	93.8							120.2
PNDB	97.6	98.7	99.8	103.5	105.6	108.2	110.5	110.9	112.2	110.0	105.4							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 12 HR. 10.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	66. (1.15)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.
50																		
63																		
80																		
100	52.9	53.2	52.3	53.5	52.9	49.2	47.4	46.3	48.1	50.0	50.1							
125	46.3	47.3	50.2	50.2	50.5	49.1	49.3	51.0	50.2	49.9	48.9							
160	44.4	48.0	48.9	48.1	48.4	48.0	51.9	50.2	50.6	51.3	49.1							
200	44.5	45.4	48.5	47.7	48.1	51.7	52.4	52.3	52.2	52.8	50.4							
250	46.7	48.3	49.7	50.9	51.7	51.4	52.3	52.2	51.4	51.2	49.0							
315	49.5	50.2	51.2	52.6	52.4	53.0	53.7	52.4	51.3	50.8	48.3							
400	46.1	47.4	48.6	51.3	53.6	50.5	51.7	51.3	50.4	49.7	47.8							
500	44.7	46.5	47.7	49.5	53.5	51.2	52.1	52.2	51.3	50.3	46.3							
630	48.1	49.4	51.4	52.6	53.4	54.5	55.5	55.1	5..8	51.6	45.8							
800	48.0	49.3	50.1	51.6	52.4	53.5	54.5	54.4	53.7	51.8	45.5							
1000	45.5	47.3	48.3	51.6	52.7	54.3	56.2	56.5	56.3	53.7	44.8							
1250	47.3	47.5	49.8	53.3	55.1	56.2	57.8	57.4	57.1	55.5	45.3							
1600	51.2	52.4	54.6	57.7	61.7	62.3	63.1	61.9	61.9	59.9	47.4							
2000	44.0	45.4	47.9	50.5	52.1	54.1	54.9	54.4	53.1	49.6	41.9							
2500	43.3	45.5	47.7	50.5	52.9	54.7	55.2	56.4	54.6	51.9	41.7							
3150	47.5	50.4	52.3	56.3	59.6	62.9	63.8	62.6	63.7	58.8	46.9							
4000	45.5	48.3	50.5	56.1	58.6	61.1	63.3	62.5	61.5	56.5	44.5							
5000	46.9	48.7	51.4	57.5	60.1	62.1	65.2	64.1	62.9	56.7	44.7							
6300	44.7	47.9	50.6	55.4	58.2	61.3	63.9	63.0	61.1	54.3	41.9							
8000	39.8	43.3	45.9	51.4	54.2	57.5	59.4	58.8	56.8	49.8	36.8							
10000	37.9	41.7	44.6	50.8	53.6	56.8	58.8	58.8	57.2	48.5	33.7							
12500	35.2	38.4	41.9	47.4	51.1	52.8	54.9	55.4	52.9	43.5	27.5							
16000	27.3	31.4	34.9	40.5	44.6	47.0	48.9	49.1	45.8	35.8	16.2							
20000	19.5	25.1	29.4	35.9	39.6	41.7	43.5	43.4	39.7	24.7	3.5							
25000	11.1	18.6	20.6	27.7	31.4	33.1	34.1	32.6	27.5	12.9								
31500		3.8	8.5	16.9	20.5	22.2	22.4	19.8	12.8									
40000					1.3	3.2	3.3											
50000																		
63000																		
80000																		
OVERALL CALCULATED	60.3	61.8	63.4	66.6	68.9	70.8	72.5	71.8	71.1	67.2	59.8							
PNDB	71.4	73.7	75.7	79.6	82.0	84.5	86.9	85.1	84.8	80.6	70.5							

SIDELINE 200. FT. (60.96 M)

VEHICLE R-55

CONFIG [illegible] 95-44

LOC SCHENECTADY

DATE 1/17/75

RUN 57/2

TAPE

BAR 30.2 HG (81890. N/M2)

TAMB 31. DEG F (273. DEG K)

TDEW 22. DEG F (258. DEG K)

HACT 0.55 GM/M3 (.00055 MG/M3)

NFA 6147. RPM (644. RAD/SEC)

NFK 6320. RPM (662. RAD/SEC)

NFD 8823. RPM (924. RAD/SEC)

NO. OF BLADES 15

FAN TIP SPEED 537. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	66. (1.15)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	53																		
RADIAL 17. FT.	80																		
(5. MI	100	66.6	75.1	74.4	77.4	72.6	72.9	71.9	79.2	75.7	80.3	83.9							109.9
VEHICLE P-3C	125	77.7	79.9	79.1	77.2	76.1	75.9	79.1	77.2	78.7	80.3	83.1							112.2
CONFIG [illegible]	160	71.3	71.4	71.6	72.9	72.9	73.2	75.9	77.2	79.5	81.8	83.9							111.1
LOC SCHENECTADY	200	71.0	70.6	71.4	72.4	74.1	76.4	76.6	78.9	79.7	82.0	84.0							112.0
DATE 1/17/75	250	74.0	74.6	75.4	74.7	77.1	77.4	78.9	78.9	80.2	81.0	84.1							112.7
RUN 57/3	315	76.1	76.4	76.6	77.2	77.6	77.4	78.4	78.9	79.7	81.3	83.4							112.8
TAPE	400	73.8	74.1	73.9	75.9	75.4	76.9	76.9	77.9	79.2	81.4	82.4							111.5
BAR 30.2 IN	500	72.4	72.9	72.7	74.2	75.2	76.0	77.4	78.4	79.7	80.9	81.1							111.2
(1018*0. N/M2)	630	75.2	75.4	76.4	77.7	77.9	78.5	81.1	81.2	81.5	82.1	81.1							113.6
TAMB 31. DEG F	800	75.2	75.4	75.7	77.2	77.9	79.2	80.4	81.4	81.8	81.9	80.9							113.4
(273. DEG K)	1000	72.8	74.2	73.9	76.5	77.9	79.5	82.1	82.9	83.5	83.1	80.1							114.2
TWET 22. DEG F	1250	74.9	73.7	75.2	77.5	79.2	80.8	82.6	83.9	84.8	83.9	79.9							115.1
(268. DEG K)	1600	78.2	78.5	79.7	81.6	83.8	85.5	86.6	87.7	87.8	87.2	82.8							118.9
HACT 0.55 GM/M3	2000	74.5	74.7	76.2	78.1	79.8	81.8	83.6	84.7	84.5	83.7	80.4							115.8
(.00055 KG/M3)	2500	79.9	72.5	73.1	76.4	79.5	80.0	82.1	83.9	85.3	81.2	74.1							114.6
NFA 6900. RPM	3150	75.1	77.5	74.1	82.4	84.0	88.5	90.5	90.3	92.8	87.9	83.1							121.7
(722. RAD/SEC)	4000	75.3	76.6	79.3	83.8	86.4	89.4	91.4	91.9	92.4	88.5	84.5							122.8
NFK 7894. RPM	5000	76.2	77.3	79.1	83.5	89.4	90.8	93.6	93.1	93.5	89.2	84.1							124.1
(743. RAD/SEC)	6300	74.7	77.8	79.3	83.6	86.9	89.7	93.8	92.8	93.5	88.1	83.1							123.5
NFB 6823. RPM	8000	71.7	74.6	76.4	81.4	85.0	88.0	90.2	90.7	90.7	86.0	81.4							121.3
(924. RAD/SEC)	10000	71.6	74.0	76.4	82.6	84.9	88.0	90.5	91.6	92.5	87.1	82.4							122.2
NO. OF BLADES 15	12500	71.1	73.2	75.7	82.2	84.4	87.2	90.2	92.0	92.8	88.8	81.7							122.2
FAN TIP SPEED	16000	64.5	70.6	72.7	79.5	81.7	84.5	87.5	89.9	89.7	84.6	79.9							120.1
682. FT/SEC	20000	58.1	69.0	72.9	79.5	80.9	83.6	87.5	90.2	90.6	84.5	79.8							120.6
	25000	56.9	68.3	70.4	77.0	80.5	82.4	85.9	88.3	89.1	83.9	77.8							119.9
	31500	55.4	66.9	69.2	76.1	79.0	81.8	84.7	87.1	87.8	82.2	75.3							119.3
	40000	63.0	64.8	66.4	72.3	74.9	77.9	81.3	82.5	83.8	78.8	69.3							116.7
	50000	63.2	62.2	64.5	67.4	78.1	72.8	76.6	76.8	77.3	74.1	68.1							113.4
	63000	64.3	61.1	64.3	63.8	64.9	67.8	69.8	66.9	69.7	67.3	61.7							109.6
	80000	66.4	63.8	65.8	62.9	63.3	63.8	64.9	64.1	63.5	63.5	61.4							110.9
OVERALL MEASURED		87.7	89.2	88.3	93.7	96.6	98.9	101.4	102.2	102.7	99.8	96.3							133.3
OVERALL CALCULATED	PWLM	99.7	101.4	102.7	100.4	100.7	111.8	113.7	113.9	114.5	111.9	108.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.0

WALL STATIC PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

PRESS.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
SIDELINE 283. FT. 80																	
(86.96 M) 100	49.1	55.4	52.3	51.7	51.0	51.2	49.7	49.1	51.3	53.0	53.8						
VEHICLE R-55 120	49.3	57.1	57.8	55.4	54.5	54.1	52.8	54.0	54.2	53.7	52.9						
CONFIG 160	47.4	46.5	49.4	51.1	51.2	51.3	53.5	53.9	54.8	55.0	53.4						
LOC SCHENECTADY 200	47.1	47.7	49.1	50.5	52.3	54.4	54.2	55.6	55.0	55.9	54.2						
DATE 12/7/75 240	50.6	51.6	53.2	54.7	55.2	55.4	54.3	55.5	55.4	54.7	53.2						
RUN 5773 315	51.9	53.2	54.2	55.1	55.7	56.3	55.7	55.4	54.8	54.1	52.3						
TAPE 400	49.6	50.9	51.3	52.8	53.3	54.7	54.2	54.3	54.1	53.9	51.8						
BAR 30.2 MG 530	49.8	49.5	50.9	52.9	53.8	53.7	54.6	54.7	54.5	53.3	49.6						
(81898. N/M2) 630	50.6	51.9	53.6	55.4	55.7	57.1	58.2	57.3	56.1	54.4	49.3						
TAMB 31. DEG F 670	50.5	51.8	52.4	54.5	55.6	56.7	57.3	57.4	56.2	53.9	48.8						
(273. DEG K) 1000	48.1	53.4	50.9	53.9	55.5	56.8	56.8	58.8	57.8	54.9	47.7						
TWET 22. DEG F 1250	49.8	49.8	52.0	54.8	56.5	58.0	59.3	59.6	58.9	55.5	47.1						
(260. DEG K) 1600	53.8	54.4	56.3	58.7	61.0	62.6	63.1	63.2	61.6	58.4	49.4						
HACT 0.55 GM/M3 2000	49.8	50.4	52.0	54.0	56.8	58.6	59.9	59.9	58.1	54.6	48.6						
(.00055 KG/M3) 2500	45.3	48.8	49.4	52.1	55.4	56.7	58.2	58.9	58.6	51.8	43.9						
NFA 6980. RPM 3130	49.1	52.6	54.3	56.8	62.6	64.9	66.3	65.1	65.8	58.8	48.1						
(722. RAD/SEC) 4000	48.7	51.3	54.5	59.8	62.6	65.4	66.8	64.2	64.8	58.8	48.5						
NFK 7894. RPM 5000	49.4	51.7	54.4	59.3	65.3	64.6	68.7	67.1	65.6	58.2	47.5						
(743. RAD/SEC) 6330	46.9	50.7	53.6	58.6	62.2	64.8	67.4	64.8	64.6	58.8	44.7						
NFD 6823. RPM 8000	42.6	47.8	49.8	56.4	59.2	62.9	63.4	62.6	60.3	51.8	40.1						
(824. RAD/SEC) 10000	40.5	44.7	48.4	55.9	57.6	60.4	62.1	61.6	59.9	50.2	37.2						
NO. OF BLADES 18 12500	37.2	41.4	45.2	52.4	54.8	57.3	59.4	59.4	56.4	46.8	30.8						
FAN TIP SPEED 16000	30.8	34.6	38.4	45.1	48.6	51.9	52.8	53.1	49.8	37.3	19.6						
692. FT/SEC 20000	23.5	28.3	32.6	40.3	43.1	45.2	47.7	47.6	43.4	28.7	7.8						
25000	13.6	19.1	23.8	31.9	35.9	37.1	38.8	37.8	32.3	15.7							
31500		6.3	12.8	20.9	24.5	26.5	26.9	24.5	16.3								
40000				2.1	6.8	7.5	7.8	2.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.1	64.8	66.2	69.2	72.8	73.9	73.5	74.7	73.5	68.3	63.4						
PWIN	73.6	76.5	78.4	80.5	85.9	87.4	88.1	88.2	87.1	81.4	73.2						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 10.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
RADIAL 17. FT.	63																		
(5. MI	125	69.8	71.4	73.1	72.9	73.8	74.2	74.6	75.2	79.0	83.1	87.4							112.2
VEHICLE	175	74.3	78.4	77.9	77.7	77.1	77.2	78.9	80.7	81.7	83.8	84.6							114.2
CONFIG	140	74.5	74.4	74.9	75.9	75.4	75.9	78.9	80.7	82.2	84.8	87.4							114.2
LOC SCHENECTADY	225	73.3	73.1	74.4	75.7	77.1	78.9	79.4	81.4	83.0	85.6	88.1							114.9
DATE 1/17/75	250	74.0	77.9	79.4	80.2	80.6	81.1	82.1	83.9	84.7	86.5	88.1							116.9
RUN 57/4	315	74.6	79.1	78.3	79.9	82.1	90.7	81.6	81.7	82.2	84.8	88.1							119.8
TAPE	400	75.8	76.9	77.4	77.7	78.6	78.9	80.1	80.9	82.2	84.4	85.4							114.5
BAR 30.2 HG	500	74.4	75.2	75.4	77.8	77.7	79.8	80.4	81.7	82.5	84.1	84.4							114.2
(81060. N/M2)	630	77.2	77.2	78.4	79.5	80.4	81.5	83.9	83.7	84.3	84.8	84.1							118.1
TAMB 31. DEG F	800	77.7	77.7	79.4	79.2	80.2	81.5	82.6	83.9	84.8	84.9	83.6							118.8
(273. DEG K)	1000	75.7	76.7	77.4	78.8	80.2	81.7	84.1	84.9	85.5	85.1	82.8							118.4
T-CT 22. DEG F	1250	76.2	76.3	77.4	78.9	81.5	82.8	84.9	85.2	85.4	84.9	83.1							118.8
(268. DEG K)	1600	77.3	77.5	78.2	80.8	82.5	84.8	85.9	86.2	86.3	86.4	81.6							117.5
MACT 0.55 GM/M3	2000	79.5	79.5	80.7	83.1	85.3	88.8	90.1	91.2	90.8	87.2	84.1							121.4
(.00055 KG/M3)	2500	74.7	75.2	77.1	79.9	82.5	93.3	84.8	84.1	87.8	89.2	79.9							117.8
NFA 7671. RPM	3150	76.6	78.8	80.3	83.6	86.8	87.7	89.3	90.8	92.8	84.9	82.8							121.5
(803. RAD/SEC)	4000	79.5	81.4	83.7	87.1	91.2	93.2	96.1	97.4	95.9	92.8	88.2							127.1
NFK 7887. RPM	5000	78.8	79.1	82.1	86.8	90.1	92.8	95.1	95.8	95.5	90.5	89.1							125.9
(826. RAD/SEC)	6300	74.7	80.9	83.5	87.3	91.2	93.7	96.5	97.1	97.7	90.9	89.4							127.5
NFE 8023. RPM	8000	75.2	78.1	79.3	84.7	87.7	96.8	93.7	93.7	93.5	87.5	83.4							124.2
(824. RAD/SEC)	10000	75.6	77.3	80.8	85.8	88.4	91.7	94.5	95.8	95.7	90.6	84.2							125.9
NO. OF BLADES 15	12500	75.1	78.5	79.4	85.2	88.4	92.4	93.7	95.5	95.2	89.3	84.2							125.8
FAN TIP SPEED	16000	72.5	74.1	76.5	82.3	85.5	88.3	91.7	93.4	93.8	87.1	81.9							123.7
870. FT/SEC	20000	71.6	73.8	76.3	82.3	85.4	88.1	91.8	94.2	93.5	87.2	82.8							124.5
	25000	70.6	72.3	75.2	81.8	84.2	87.1	90.9	93.8	92.8	87.3	81.3							124.2
	31500	68.9	70.9	73.9	80.6	83.8	86.6	89.4	91.1	91.3	85.9	78.5							123.6
	40000	65.8	67.2	70.4	76.5	79.4	82.4	85.5	86.5	87.2	82.3	72.8							120.0
	50000	64.5	63.2	67.8	70.9	73.8	77.8	81.3	81.3	81.8	77.9	67.3							117.7
	63000	64.1	61.4	65.8	64.8	67.7	78.8	73.3	72.9	73.5	78.5	62.7							112.7
	80000	67.2	63.8	65.8	63.6	64.5	65.8	66.7	65.6	66.8	64.7	61.8							112.8
OVERALL MEASURED																			
OVERALL CALCULATED		90.4	91.4	93.2	96.7	99.6	102.1	104.7	105.8	105.7	101.3	99.1							120.8
	PWL	103.8	104.3	106.3	109.7	112.4	114.3	116.6	117.9	117.4	114.8	111.2							

ORIGINAL PAGE IS
OF POOR QUALITY

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE D-88
CONFIG 96-14
LOC SCHENECTADY
DATE 1/17/75
RUN 5774
TAPE
BAR 30.2 HG (01890. N/M2)
TAMB 31. DEG F (273. DEG K)
THET 22. DEG F (268. DEG K)
HACT 0.55 GM/M3 (.00055 KG/M3)
NFA 7671. RPM (803. RAD/SEC)
NFK 7887. RPM (826. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 670. FT/SEC

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
53																	
80																	
100	45.1	48.7	51.1	51.2	52.0	52.4	52.4	52.1	53.6	56.5	57.3						
125	53.3	55.6	55.7	57.4	55.5	55.4	56.6	57.5	57.2	56.9	56.4						
160	50.2	51.5	52.7	54.1	53.7	54.0	56.5	57.4	57.6	58.0	56.9						
200	49.3	50.2	52.1	53.7	55.3	56.9	56.9	58.1	58.2	58.6	57.4						
250	54.0	54.8	57.0	58.2	58.7	59.1	59.6	60.5	59.9	59.7	57.2						
315	54.4	56.0	56.4	57.8	59.2	58.5	59.0	58.1	57.3	57.6	55.0						
400	52.6	53.6	54.8	55.5	56.6	56.7	57.4	57.3	57.1	56.9	54.0						
500	50.0	51.8	52.7	54.7	55.5	56.7	57.6	57.9	57.3	56.5	52.8						
630	52.6	53.7	55.6	57.1	58.2	59.1	61.0	59.8	58.9	56.9	52.3						
800	53.0	54.1	55.5	56.8	57.8	59.0	59.6	59.9	59.2	54.9	51.5						
1000	50.9	52.9	54.4	54.4	57.7	59.1	60.9	60.8	59.8	56.9	50.2						
1250	51.2	52.0	54.3	57.1	59.9	60.0	61.6	60.9	59.9	56.5	50.3						
1600	51.7	53.4	54.8	57.9	59.7	61.1	62.4	61.7	60.1	55.7	48.4						
2000	54.0	54.2	57.1	60.0	62.3	64.9	66.4	66.4	64.4	58.1	50.4						
2500	49.0	50.7	53.4	56.6	59.4	60.0	60.7	61.2	60.4	52.8	45.7						
3150	50.6	53.1	56.3	60.1	63.4	64.1	65.1	65.6	65.0	57.0	47.9						
4000	53.0	55.1	59.3	64.1	67.4	69.1	71.5	71.7	68.3	61.5	52.2						
5000	51.1	53.5	57.4	61.5	66.1	68.3	70.2	69.6	67.6	59.5	48.5						
6300	50.9	54.4	58.1	62.4	66.4	68.8	70.9	70.2	68.8	58.6	46.9						
8000	46.1	50.5	53.3	58.7	61.9	64.7	66.9	65.6	63.1	53.3	42.1						
10000	44.5	47.9	52.6	58.0	61.1	64.1	66.1	65.9	63.2	52.7	39.0						
12500	41.2	44.6	48.9	55.4	58.8	62.6	62.9	62.9	59.6	48.5	33.3						
16000	34.0	38.1	42.1	48.8	52.4	54.8	57.0	56.6	52.3	39.8	21.5						
20000	27.0	32.3	36.9	44.0	47.6	49.7	52.0	51.6	46.2	31.5	9.2						
25000	17.3	23.1	28.6	35.9	39.6	41.9	43.8	42.4	36.0	19.4							
31500	2.8	10.3	16.8	25.4	28.5	31.2	31.6	28.5	20.5	0.3							
40000				6.4	10.0	12.0	11.8	6.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.7	66.6	68.8	71.9	74.7	76.6	78.3	78.1	76.2	70.7	66.5						
PNDB	76.3	79.2	82.0	85.8	88.7	90.4	92.3	92.3	89.9	83.9	76.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 16.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	68.3	72.1	73.4	73.4	73.4	74.4	74.4	74.9	74.5	83.6	87.4							112.4
VEHICLE ARES	125	74.3	78.6	78.4	77.9	77.4	77.2	78.6	80.9	81.2	83.8	86.9							114.4
CONFIG [illegible]	160	73.8	74.6	74.9	76.2	75.6	76.2	78.8	80.4	82.5	84.6	87.1							114.1
LOC SCHENECTADY	200	73.5	73.4	74.1	75.7	76.9	79.4	79.6	81.4	83.0	85.8	87.6							114.9
DATE 1/17/75	250	78.0	78.1	79.6	80.4	80.9	81.6	83.1	84.4	85.0	84.8	86.1							117.1
RUN 57/5	315	78.3	78.9	79.1	79.9	80.1	80.7	81.1	81.7	82.7	84.8	86.6							115.6
TAPE	400	76.3	76.9	77.2	78.5	78.6	78.2	79.9	80.9	82.5	84.6	85.9							114.6
BAR 30.2 HG	500	74.4	75.2	75.9	76.7	77.7	78.7	80.6	81.4	82.7	84.4	84.9							114.3
(102. N/M2)	630	77.2	77.2	78.4	79.7	80.2	81.5	83.1	84.2	83.8	84.6	84.6							116.0
31. DEG F	800	77.7	78.2	78.4	79.5	79.9	81.7	83.1	83.9	84.5	85.6	83.9							116.2
(273. DEG K)	1000	75.4	77.2	77.2	79.0	80.4	82.0	83.9	84.4	85.2	85.1	82.9							116.3
TACT 22. DEG F	1250	76.2	76.2	77.7	80.0	81.0	83.3	84.9	85.2	86.0	85.7	82.6							117.0
(268. DEG K)	1600	77.0	76.7	78.2	81.1	82.3	84.5	86.4	86.4	86.8	85.2	81.9							117.9
WACT 0.55 GM/M3	2000	79.5	78.7	80.9	83.9	85.5	88.3	90.6	91.2	91.0	87.4	84.6							121.7
(.00055 KG/M3)	2500	74.2	75.5	77.4	80.6	82.8	83.9	84.6	85.9	86.8	83.2	80.1							117.0
NFA 7667. RPM	3150	76.6	78.5	80.6	84.1	86.8	88.2	88.5	90.8	92.5	87.6	83.1							121.7
(803. RAD/SEC)	4000	80.3	81.4	83.7	88.3	91.2	93.7	95.4	97.2	95.9	92.8	88.7							127.0
NFK 7883. RPM	5000	78.5	79.8	81.6	86.5	89.6	92.5	95.3	95.4	95.3	91.0	85.4							125.9
(825. RAD/SEC)	6300	78.5	80.8	83.3	88.3	90.7	93.7	96.7	96.8	98.8	91.4	85.6							127.8
NFD 8823. RPM	8000	75.7	78.1	79.9	85.2	87.7	91.5	92.9	93.5	93.5	87.7	83.1							124.1
(924. RAD/SEC)	10000	75.9	77.5	80.6	86.3	89.2	92.0	93.8	95.6	95.2	90.3	84.4							125.7
NO. OF BLADES 15	12500	75.1	76.2	79.2	85.2	89.1	92.2	93.7	95.2	95.5	90.0	84.2							125.8
FAN TIP SPEED	16000	72.3	73.9	77.0	82.3	85.5	88.0	91.0	93.7	92.7	87.6	81.9							123.8
669. FT/SEC	20000	71.9	73.3	76.3	82.8	85.7	88.8	91.5	93.9	93.5	88.0	81.8							124.5
	25000	70.9	72.3	75.4	81.8	84.5	86.9	90.4	92.5	93.1	87.6	81.8							124.1
	31500	68.9	70.9	74.4	80.8	83.3	86.1	88.7	90.6	91.0	86.2	79.0							123.2
	40000	65.8	67.5	70.4	76.5	79.1	82.6	85.5	86.7	87.0	82.5	72.3							120.9
	50000	64.2	63.2	67.2	71.1	74.1	77.0	81.1	80.6	81.3	78.1	67.3							117.4
	63000	64.1	61.6	64.5	65.1	67.4	70.2	73.1	72.9	73.0	70.8	62.4							112.8
	80000	66.4	64.8	65.0	63.6	63.8	65.0	65.9	65.4	66.0	65.9	61.9							111.8
OVERALL MEASURED																			
OVERALL CALCULATED		90.5	91.5	93.2	97.1	99.6	102.3	104.4	105.6	105.7	101.0	99.2							136.5
	PNLT	103.4	104.4	106.3	110.1	112.4	114.7	116.4	117.7	117.4	114.6	111.8							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 12 HR. 10.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	150. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	44.6	49.4	51.3	51.7	51.8	52.7	52.2	51.8	54.1	57.0	57.3						
VEHICLE F-55 125	52.5	55.8	56.2	56.2	55.7	55.4	56.3	57.8	56.7	57.2	56.6						
CONFIG ~~F-55-15~~ 160	49.9	51.7	52.7	54.3	53.9	54.3	56.3	57.2	57.8	57.8	56.6						
LOC SCHENECTADY 200	49.6	50.4	51.8	51.7	55.1	57.4	57.2	58.1	58.2	58.9	56.9						
DATE 1/17/75 250	54.3	55.1	57.2	58.4	59.0	59.6	60.6	61.0	60.1	59.7	57.2						
RUN 57/5 315	54.1	55.7	56.7	57.8	58.2	58.5	58.5	58.1	57.8	57.8	55.5						
TAPE 400	52.1	53.6	54.6	56.3	56.6	56.7	57.2	57.3	57.4	57.2	54.5						
BAR 30.2 HG 500	50.0	51.8	53.2	54.5	55.3	56.4	57.8	57.7	57.5	56.8	53.3						
(101890. N/M2) 630	52.6	53.7	55.6	57.4	57.9	59.1	60.2	60.3	58.4	56.9	52.8						
TAMB 31. DEG F 800	53.0	54.6	55.5	57.0	57.6	59.2	60.1	59.9	59.0	57.7	51.8						
(273. DEG K) 1000	53.6	53.4	54.1	54.4	58.0	59.3	60.7	60.3	59.5	56.9	50.4						
TACT 22. DEG F 1250	51.2	52.3	54.5	57.3	58.4	60.5	61.6	60.9	60.1	57.2	49.8						
(268. DEG K) 1600	51.7	52.6	54.8	56.2	59.5	61.6	62.9	61.9	60.6	56.4	48.6						
MACT 0.55 GM/M3 2000	54.0	54.4	57.4	60.8	62.6	65.1	66.9	66.4	64.6	58.4	50.9						
(.00055 KG/M3) 2500	49.5	51.0	53.7	57.4	59.6	59.7	60.7	60.9	60.1	53.8	45.9						
NFA 7467. RPM 3150	52.6	53.6	56.6	60.6	63.4	64.4	64.3	65.6	65.5	57.8	48.1						
(803. RAD/SEC) 4000	53.7	56.1	59.3	64.3	67.4	69.6	70.8	71.5	68.3	62.2	52.7						
NFK 7883. RPM 5000	51.6	54.0	56.9	62.3	65.6	68.8	70.4	69.3	67.4	60.0	48.7						
(825. RAD/SEC) 6300	50.7	54.4	57.8	63.4	65.9	68.8	71.1	70.0	69.1	59.1	47.2						
NFD 8823. RPM 8000	46.6	50.5	53.3	59.2	61.9	65.5	66.1	65.3	63.1	53.5	41.8						
(924. RAD/SEC) 10000	44.8	48.2	52.4	58.8	61.8	64.4	65.4	65.8	62.7	53.5	39.2						
NO. OF BLADES 15 12500	41.2	44.4	48.7	55.4	58.6	62.3	62.9	62.6	58.9	49.2	33.3						
FAN TIP SPEED 16000	33.8	37.9	42.6	48.8	52.4	54.5	56.3	56.8	52.0	40.3	21.5						
669. FT/SEC 20000	27.2	31.8	36.9	44.5	47.8	50.2	51.7	51.4	46.2	32.2	9.8						
25000	17.6	23.1	28.8	36.7	39.9	41.6	43.3	41.9	36.3	19.7							
31500	2.8	10.3	17.3	25.7	28.5	30.7	30.9	28.0	20.3	0.6							
40000				6.4	9.8	12.2	11.8	6.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.7	66.7	68.8	72.4	74.6	76.8	78.2	77.9	76.2	71.1	66.6						
PNDB	77.1	79.3	82.0	86.2	88.7	90.7	91.9	92.1	90.8	84.9	79.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 3 DAY 12 HR. 16.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
50																		
63																		
RADIAL 17. FT. 80																		
(5. M) 100	70.2	73.4	76.7	78.5	74.0	76.6	73.0	69.0	72.2	74.0	76.7							109.5
VEHICLE R-55 125	67.0	68.7	71.7	69.5	70.5	68.4	67.5	70.8	72.5	71.5	74.9							104.6
CONFIG 160	64.7	64.9	64.9	66.5	66.3	66.6	68.8	70.0	71.5	73.3	75.4							103.4
LOC SCHENECTADY 200	64.3	64.7	65.2	66.2	67.0	68.9	69.8	71.2	72.5	74.3	76.6							104.3
DATE 1/17/75 250	67.2	67.9	68.9	69.7	69.8	69.9	71.3	72.0	72.7	73.3	75.1							105.0
RUN 57/6 315	69.0	70.4	70.9	71.0	71.3	71.7	71.8	72.3	72.7	73.3	74.7							105.8
TAPE 400	66.5	67.7	67.9	69.3	69.1	70.2	70.5	71.3	72.2	72.8	74.2							104.4
BAR 30.2 HG 500	65.8	67.0	67.7	68.5	68.8	70.0	71.3	72.8	73.5	73.5	74.2							104.9
(01690. N/M2) 630	69.6	70.0	71.2	72.0	72.9	74.0	75.3	76.3	76.5	76.1	74.4							108.1
TAMB 31. DEG F 800	69.8	70.0	69.4	71.3	72.1	73.7	74.8	76.0	77.0	77.1	74.7							108.0
(273. DEG K) 1000	67.4	68.5	68.9	71.3	72.9	75.0	76.8	78.8	79.5	79.8	74.7							109.8
TWET 22. DEG F 1250	73.9	73.3	73.2	77.3	79.4	81.5	82.8	84.0	85.7	86.1	78.9							115.8
(268. DEG K) 1600	70.6	70.3	70.9	73.6	75.9	78.0	79.5	81.0	81.0	81.1	75.4							114.0
WACT 0.55 GM/M3 2000	65.9	66.5	67.4	70.4	71.9	74.0	75.3	76.2	76.7	76.6	72.9							107.7
(.00055 KG/M3) 2500	68.6	69.5	71.4	73.9	77.4	80.0	81.2	84.2	86.5	84.3	78.2							115.0
NFA 5383. RPM 3150	68.3	70.3	71.1	73.9	77.2	80.2	80.9	82.9	84.7	84.3	77.1							114.2
(564. RAD/SEC) 4000	70.2	71.4	72.7	76.4	80.6	84.1	85.1	87.0	88.3	86.2	80.3							117.8
NFK 5534. RPM 5000	68.7	69.4	71.4	75.6	79.3	82.6	85.2	85.9	87.3	85.4	77.7							116.8
(579. RAD/SEC) 6300	68.1	69.1	71.8	75.4	79.6	81.5	84.2	85.4	86.7	84.3	77.4							116.2
NFD 8823. RPM 8000	64.2	66.6	68.2	72.5	75.4	79.5	82.1	83.1	83.5	80.9	75.2							113.6
(924. RAD/SEC) 10000	64.8	66.6	68.3	73.1	76.8	80.5	82.5	84.7	86.2	82.5	76.5							115.3
NO. OF BLADES 15 12500	64.3	65.0	67.0	71.7	75.8	78.2	81.6	83.5	85.2	81.5	75.8							114.4
FAN TIP SPEED 16000	62.2	63.4	64.8	69.1	73.7	76.0	79.4	82.5	83.4	80.0	74.2							113.0
470. FT/SEC 20000	60.8	61.8	63.3	68.3	72.6	75.3	77.7	80.8	83.2	79.2	72.6							112.5
25000	59.3	59.9	61.7	67.3	71.2	73.9	76.8	78.4	80.4	77.2	69.9							111.0
31500	58.1	59.2	60.4	66.4	70.5	72.8	75.6	77.9	78.5	75.9	68.1							110.7
40000	55.9	56.5	58.0	62.3	65.8	68.9	72.0	73.3	74.5	72.2	62.1							100.0
50000	56.4	55.7	57.2	58.4	61.2	64.0	67.2	67.7	68.8	67.6	57.4							104.8
63000	56.8	53.4	56.8	55.9	57.1	58.2	60.0	60.2	61.7	60.0	54.2							101.3
80000	56.1	57.4	56.5	56.4	54.9	55.2	56.3	55.5	55.4	55.2	53.2							102.9
OVERALL MEASURED																		
OVERALL CALCULATED	82.0	82.9	84.3	87.0	89.6	92.0	93.8	96.0	96.9	95.1	90.0							120.9
PNWB	94.1	95.1	96.4	99.5	102.8	105.4	106.7	108.6	109.6	108.1	103.0							

FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE = MONTH 3 DAY 12 HR. 16.0

MODEL SUCT PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
SIDELINE 200. FT.	50																	
(60.96 M)	63																	
	100	44.6	50.7	54.5	56.8	56.5	54.9	50.8	45.9	47.4	47.5	46.6						
VEHICLE R-55	125	43.2	45.9	49.3	47.7	48.9	46.4	45.2	47.6	47.9	44.9	44.7						
CONFIG [illegible]	160	40.9	42.3	42.7	44.5	44.6	44.8	46.4	46.8	46.8	46.5	44.9						
LOC SCHENECTADY	200	40.0	41.7	42.3	44.1	45.2	46.9	47.3	47.9	47.7	47.3	46.0						
DATE 1/17/75	250	43.2	44.9	46.5	47.7	47.9	47.8	48.7	48.6	47.8	46.2	44.3						
RUN 57/6	315	44.8	47.3	48.4	48.9	49.3	49.5	49.2	48.7	47.7	46.5	43.6						
TAPE	400	42.2	44.4	45.3	46.8	47.0	48.0	47.8	47.6	47.1	45.4	42.8						
BAR 30.2 HG	500	41.4	43.6	45.0	46.3	46.7	47.8	48.5	49.0	48.3	46.3	42.6						
(01690. N/M2)	630	40.1	42.5	44.1	45.7	46.5	51.5	52.4	52.4	51.1	48.3	42.6						
TAMB 31. DEG F	800	45.2	46.4	45.5	48.9	49.7	51.2	51.7	52.0	51.5	49.1	42.6						
(273. DEG K)	1000	42.5	44.7	45.9	48.7	50.4	52.3	53.6	54.6	53.4	51.6	42.2						
TACT 22. DEG F	1250	48.9	49.1	50.0	54.6	56.8	58.7	59.5	59.7	59.9	57.7	46.1						
(268. DEG K)	1600	45.4	45.9	47.6	50.7	53.2	55.1	56.0	62.5	54.9	52.4	42.2						
HACT 0.55 GM/M3	2000	40.4	42.2	43.9	47.3	49.0	50.9	51.6	51.5	50.4	47.5	39.2						
(.00055 KG/M3)	2500	42.9	45.0	47.7	50.7	54.3	56.7	57.3	59.3	59.9	55.0	44.0						
NFA 5383. RPM	3150	42.3	45.2	47.1	50.4	53.8	56.6	56.7	57.7	57.7	54.5	42.2						
(564. RAD/SEC)	4000	43.7	46.1	48.3	52.4	56.8	60.1	60.4	61.3	60.8	55.6	44.3						
NFK 5534. RPM	5000	41.8	43.8	46.7	51.3	55.2	58.3	60.3	59.9	59.3	54.4	41.0						
(579. RAD/SEC)	6300	40.4	42.7	46.3	50.4	54.8	56.5	58.5	58.6	57.8	52.0	39.0						
NFD 8623. RPM	8000	38.0	39.0	41.6	46.5	49.6	53.5	55.3	54.9	53.0	46.7	33.9						
(924. RAD/SEC)	10000	33.7	37.2	40.1	45.6	49.5	52.9	54.0	54.7	53.7	45.8	31.3						
NO. OF BLADES 15	12500	30.4	33.2	36.4	42.0	46.2	48.3	50.8	51.0	49.8	40.8	24.8						
FAN TIP SPEED	16000	23.7	27.4	30.4	35.6	40.5	42.5	44.7	45.6	42.8	32.7	13.8						
470. FT/SEC	20000	16.2	20.4	23.9	30.1	34.7	36.9	37.9	38.2	35.9	23.4							
	25000	6.0	10.7	15.1	22.2	26.5	28.6	29.7	27.7	23.5	9.4							
	31500			3.3	11.2	15.9	17.5	17.8	15.4	7.7								
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		56.7	58.7	60.9	63.6	65.8	67.7	68.6	69.7	68.5	64.7	56.5						
PNDB		67.7	69.9	72.1	75.6	78.9	81.0	82.2	83.0	82.2	77.8	67.6						

FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE = MONTH 3 DAY 25 HR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. MUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.7	73.2	76.2	77.7	77.5	77.4	73.0	67.8	72.2	74.8	77.2							109.2
125	66.2	69.4	71.7	71.2	71.0	69.4	68.3	71.5	72.2	72.3	75.2							105.0
160	64.7	65.7	66.4	67.0	66.3	67.6	68.5	70.3	72.2	73.5	76.2							103.0
200	64.2	64.4	64.9	66.5	67.5	69.1	70.0	71.5	72.9	74.3	76.6							104.5
250	67.7	68.4	69.4	69.7	70.0	71.1	72.0	72.2	72.7	73.5	75.6							105.5
315	68.7	69.2	70.1	71.5	71.1	71.4	71.5	71.7	72.5	73.5	75.4							105.7
400	66.3	67.7	67.9	68.8	69.1	69.7	69.8	71.3	72.0	73.0	74.2							104.3
500	66.1	67.0	67.4	68.0	67.6	70.0	71.3	72.5	73.5	74.0	74.2							105.0
630	70.1	70.0	71.4	72.5	72.9	74.2	75.8	75.8	76.0	75.8	74.9							108.1
800	69.6	69.0	69.4	71.3	71.4	73.2	74.8	75.5	76.5	74.8	74.5							107.7
1000	66.4	67.5	67.4	70.6	70.9	73.2	75.0	77.0	76.2	74.3	73.7							108.3
1250	69.2	68.0	70.2	73.1	74.7	77.0	78.1	80.3	82.3	82.9	77.0							112.0
1500	64.4	64.3	65.5	68.2	69.7	71.5	73.0	74.0	74.5	75.1	71.5							105.6
2000	62.9	64.3	65.0	67.4	69.0	71.0	73.5	75.5	77.0	77.6	73.7							108.9
2500	70.4	72.3	75.4	77.5	79.7	82.3	84.0	86.0	89.0	87.1	80.7							117.5
3150	68.9	71.3	72.9	74.5	79.5	82.5	84.0	84.9	86.2	85.3	79.1							116.2
4000	71.3	72.7	74.5	79.1	82.4	85.2	86.8	88.3	89.6	87.0	81.3							119.1
5000	67.4	69.7	70.9	75.1	78.1	81.9	84.5	85.0	85.0	83.2	76.9							115.5
6300	66.7	67.6	69.8	73.7	77.1	80.8	82.9	84.5	85.2	82.3	77.0							114.9
8000	65.2	67.4	69.0	73.5	76.7	80.1	82.9	83.8	85.5	82.2	76.7							114.8
10000	64.6	65.9	67.6	72.7	76.4	80.0	82.2	84.4	86.0	81.6	76.0							115.0
12500	64.1	65.1	66.8	71.4	75.6	78.2	80.7	83.3	85.5	80.5	75.5							114.2
16000	62.9	63.0	64.8	69.4	73.2	76.1	79.4	81.8	83.2	79.0	73.7							112.7
20000	61.1	61.9	63.1	68.9	72.7	75.6	78.2	80.6	83.3	78.7	72.8							112.5
25000	59.6	60.7	61.8	67.1	71.2	73.9	76.9	78.9	80.7	76.3	70.4							111.1
31500	57.6	59.1	60.5	66.7	70.3	73.1	75.4	77.5	79.1	75.7	68.1							110.7
40000	56.0	55.8	57.8	62.9	65.6	68.9	71.5	73.1	75.5	71.3	62.1							108.1
50000	56.0	55.1	57.3	59.5	61.6	64.1	66.3	67.7	69.3	66.7	57.5							104.7
63000	54.6	53.5	56.9	56.0	57.4	59.1	60.6	60.3	61.8	60.1	54.8							101.5
80000	57.7	57.8	56.2	54.8	55.8	55.1	55.9	55.1	55.8	54.8	53.3							102.7
OVERALL MEASURED	81.3	82.6	84.4	87.2	89.4	92.1	94.0	95.5	97.1	94.8	90.3							126.8
OVERALL CALCULATED	94.1	95.4	97.1	100.6	103.2	105.7	107.4	108.8	110.1	108.3	103.8							

RADIAL 17. FT.
(5. MI)
VEHICLE S-55
CONFIG 75-1K
LOC SCHENECTADY
DATE 1/17/75
RUN 5A/1
TAPE
BAR 30.2 MB
(0.0100 N/M2)
TAMB 32. DEG F
(273. DEG K)
TJET 23. DEG F
(268. DEG K)
HACT 0.69 GM/M3
(.00069 KG/M3)
NFA 5381. RPM
(563. RAD/SEC)
NFK 5527. RPM
(579. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
470. FT/SEC

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

SIDELINE 230. FT. (70.16 M)
VEHICLE R-88
CONFIG 75-1K
LOC SCHENECTADY
DATE 1/17/75
RUN 58/1
TAPE
BAR 30.2 HG (1089. N/M2)
TAMB 32. DEG F (273. DEG K)
THET 23. DEG F (266. DEG K)
HACT 0.69 GM/M3 (.00069 KG/M3)
NFA 5381. RPM (563. RAD/SEC)
NFK 5527. RPM (579. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 470. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. 110.	0. 110.	0. 110.	0. 110.	0. 3
50																		
63																		
80																		
100	46.1	50.5	54.1	54.0	54.0	54.7	50.8	44.7	47.6	48.2	47.1							
125	42.5	44.6	49.5	49.5	49.4	48.6	46.0	48.4	47.7	45.8	44.9							
160	43.9	42.8	44.2	45.1	44.5	44.8	46.2	47.0	47.4	46.7	45.7							
200	40.3	41.4	42.6	44.5	45.7	47.2	47.6	48.2	48.2	47.3	46.0							
250	43.7	45.4	47.0	47.7	48.2	49.1	49.5	48.8	47.8	46.4	44.8							
315	44.6	46.2	47.7	48.4	49.1	49.3	48.9	48.2	47.5	46.3	44.3							
400	42.0	41.4	45.3	46.6	47.0	47.5	47.1	47.6	46.9	45.6	42.8							
500	41.7	43.6	44.8	46.8	47.4	47.8	48.5	48.8	48.3	46.5	42.6							
630	45.6	46.5	48.7	50.2	50.6	51.8	52.9	51.9	50.6	48.1	43.1							
800	44.9	45.4	46.5	48.5	49.0	50.7	51.8	51.5	51.0	49.8	42.3							
1000	41.6	43.7	44.4	46.0	48.4	50.6	51.9	52.9	52.5	50.1	41.2							
1250	44.2	44.1	47.0	50.4	52.1	54.2	54.7	56.0	56.4	54.4	44.1							
1600	39.2	40.2	42.1	45.2	46.9	48.6	49.5	49.5	48.4	46.4	38.2							
2000	37.5	40.0	41.4	44.3	46.0	47.9	49.8	50.8	50.6	48.6	40.0							
2500	4.7	47.8	51.7	54.2	56.5	59.0	60.1	61.1	62.4	57.8	46.5							
3150	42.8	46.5	48.9	52.9	56.1	58.9	59.8	59.7	59.2	55.5	44.2							
4000	44.7	47.4	50.1	55.2	58.6	61.2	62.2	62.6	62.0	56.4	45.3							
5000	40.6	43.1	46.2	50.9	54.0	57.6	59.6	58.9	57.1	52.2	40.3							
6300	38.9	41.3	44.4	48.7	52.4	55.6	57.3	57.6	56.3	50.1	38.5							
8000	36.1	39.8	42.4	47.5	50.9	54.0	56.1	55.7	55.1	48.0	38.4							
10000	33.5	36.5	39.4	45.1	49.0	52.4	53.8	54.5	53.5	44.7	36.8							
12500	30.2	33.2	36.2	42.0	46.0	48.4	49.9	50.8	49.9	39.7	24.6							
16000	23.5	27.9	30.5	35.9	40.1	42.6	44.7	44.9	42.8	31.8	13.3							
20000	16.5	20.5	23.7	30.7	34.4	37.3	38.4	38.0	36.0	23.8								
25000	6.3	11.5	15.2	23.0	28.6	28.7	29.8	28.3	23.8	8.4								
31500			3.4	11.6	15.7	17.8	17.6	14.9	8.3									
40000																		
50000																		
63000																		
80000																		
OVERALL CALCULATED	55.9	58.3	60.9	63.6	65.5	67.7	68.7	68.9	68.6	64.4	56.8							
PNDB	67.6	70.1	72.9	76.7	79.4	81.8	82.9	83.1	82.7	78.1	68.3							

OC 574

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE - MONTH 3 DAY 25 HR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT @ L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	94. (1.64)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	76.3	75.9	74.6	75.7	74.4	70.4	69.4	69.9	72.5	76.6	79.9							108.7
VEHICLE R-55	125	69.0	73.9	72.4	72.4	71.9	70.2	70.9	73.4	74.5	76.3	79.1							107.3
CONFIG 75-1K	160	69.3	69.4	70.1	70.4	70.1	70.9	72.9	74.2	75.7	78.1	80.1							107.8
LOC SCHENECTADY	200	69.3	69.1	69.4	70.2	71.4	73.6	74.4	75.9	76.7	79.6	81.3							109.0
DATE 1/17/75	250	71.0	71.6	72.1	73.2	73.4	73.9	75.4	75.4	76.2	78.3	79.1							108.9
RUN 58/2	315	72.6	73.4	73.1	74.4	74.6	74.9	75.1	75.7	76.9	78.1	79.1							109.4
TAPE	400	70.3	70.6	70.9	71.7	72.1	73.4	74.1	74.4	76.0	77.4	78.1							108.0
BAR 30.2 HG	500	69.1	69.7	70.7	71.7	71.9	73.0	74.6	75.9	76.5	77.9	77.4							108.2
(101890. N/M2)	630	72.9	72.7	74.2	75.0	75.7	76.7	78.6	78.9	78.5	79.6	77.4							111.0
TAMB 32. DEG F	800	72.2	72.7	72.7	74.0	74.4	75.7	77.4	78.4	79.0	79.1	77.2							110.4
(273. DEG K)	1000	69.7	70.7	70.4	73.3	74.0	75.5	77.9	79.7	80.3	80.1	76.7							110.7
TWET 23. DEG F	1250	69.5	69.2	70.7	72.6	74.5	76.0	78.1	79.4	80.3	81.2	76.4							110.9
(268. DEG K)	1600	71.2	71.0	71.2	73.6	74.0	75.5	79.6	79.7	81.0	81.4	75.2							112.0
HACT 0.69 GM/M3	2000	67.5	67.8	68.9	70.6	72.9	74.1	76.6	78.4	79.5	79.7	74.7							109.6
(.00069 KG/M3)	2500	70.5	72.0	73.4	75.9	78.3	80.1	82.3	84.6	86.5	83.9	78.1							115.4
NFA 6141. RPM	3150	73.7	76.2	78.1	81.4	84.3	87.0	90.0	90.1	93.0	90.2	84.1							121.8
(643. RAD/SEC)	4000	73.8	75.7	77.3	81.1	84.0	87.2	89.9	90.0	90.4	87.3	81.7							120.7
NFK 6307. RPM	5000	73.3	75.6	76.7	79.5	82.3	86.1	88.8	89.6	89.6	85.5	80.1							119.9
(660. RAD/SEC)	6300	70.8	72.1	74.1	77.4	80.2	84.0	87.5	88.1	88.5	84.2	79.7							118.4
NFD 8823. RPM	8000	67.3	71.5	73.0	77.7	80.5	83.9	87.2	88.5	88.5	85.0	79.2							118.6
(924. RAD/SEC)	10000	69.7	70.3	72.4	76.9	81.3	84.0	86.6	88.6	89.5	83.9	78.5							118.8
NO. OF BLADES 15	12500	68.4	69.6	71.8	76.2	79.7	82.2	85.0	88.3	88.5	83.3	78.5							118.1
FAN TIP SPEED	16000	65.8	66.7	68.8	73.3	77.3	80.1	83.3	86.0	86.5	81.4	76.2							116.3
536. FT/SEC	20000	65.2	66.1	69.4	72.8	76.7	79.9	83.3	85.7	87.8	81.8	76.3							117.1
	25000	64.2	64.9	67.0	71.8	74.8	78.2	81.2	84.1	84.7	79.9	74.1							115.5
	31500	63.0	63.8	66.0	70.2	74.6	77.4	79.8	82.6	83.1	78.8	71.6							115.0
	40000	61.6	61.3	64.0	67.4	73.4	73.5	76.9	78.0	79.3	75.3	66.1							112.8
	50000	63.1	61.3	63.6	64.5	66.7	69.4	72.2	72.2	73.1	70.5	62.2							109.4
	63000	64.0	61.2	64.4	62.7	64.3	64.8	66.7	65.7	66.1	64.9	61.5							107.5
	80000	68.5	62.5	65.2	62.6	62.9	63.6	64.0	63.3	62.3	62.6	61.5							110.5
OVERALL MEASURED																			
OVERALL CALCULATED		85.1	86.8	87.1	89.9	92.4	95.1	97.9	99.0	100.0	96.9	93.0							130.1
	PNLB	97.4	99.0	100.4	103.2	105.7	108.2	110.8	111.3	113.1	110.8	106.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROD. DATE - MONTH 3 DAY 25 HR. 14.4

AXIAL SOUND PRESSURE LEVELS (85. DEG. F. 70 PERCENT R.L. HUM. DAY)

SIDELINE 200. FT.
(60.96 M)
VEHICLE R-55
CONFIG 75-1R
LOC SCHENECTADY
DATE 1/17/75
PCR 58/2
TAPE
BAR 30.2 HG
(1018. MB)
TAMB 32. DEG F
(273. DEG K)
TDET 23. DEG F
(268. DEG K)
HACT 0.69 GM/M3
(0.0009 KG/M3)
NFA 6141. RPM
(643. RAD/SEC)
NFF 6307. RPM
(660. RAD/SEC)
NFS 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
536. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)												
	57. (1.00)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.																	
50																	
63																	
80																	
100	52.6	53.2	52.6	54.0	52.5	48.7	47.2	46.8	48.1	50.0	49.8						
125	45.3	48.1	50.2	50.7	50.2	48.3	48.6	50.3	50.0	49.7	48.9						
160	45.4	46.5	47.9	48.4	48.4	49.0	50.5	50.9	51.1	51.3	49.6						
200	44.3	45.1	47.1	48.2	49.6	51.7	51.9	52.6	52.0	52.6	50.7						
250	47.0	48.6	49.7	51.2	51.5	51.9	52.8	52.0	51.4	51.2	48.2						
315	48.4	50.2	50.7	52.3	52.7	52.8	52.8	52.1	51.3	50.8	48.0						
400	46.1	47.4	48.3	49.5	50.1	51.2	51.4	50.8	50.9	49.9	46.8						
500	44.7	46.3	48.0	49.5	49.8	50.7	51.8	52.2	51.3	50.3	45.8						
630	48.4	49.2	51.4	52.4	53.5	54.3	55.7	55.1	53.1	51.9	45.6						
800	47.5	49.1	49.8	51.5	52.1	53.2	54.3	54.4	53.5	51.2	45.0						
1000	44.9	46.3	47.4	50.7	51.5	52.9	54.7	55.6	54.6	52.0	44.2						
1250	44.5	45.3	47.5	49.8	51.9	53.2	54.8	55.1	54.4	52.8	43.6						
1600	46.0	46.9	47.8	50.7	55.3	55.6	56.1	55.2	54.9	52.7	41.9						
2000	42.0	43.5	45.4	47.5	49.8	50.9	52.9	53.7	53.2	50.6	40.9						
2500	44.8	47.5	49.7	52.6	55.2	56.7	58.5	59.7	59.9	54.6	43.9						
3150	47.7	51.4	54.1	57.9	60.9	63.4	65.9	64.8	66.0	60.3	49.2						
4000	47.3	50.4	52.5	57.1	60.2	63.2	65.3	64.2	62.8	56.7	45.7						
5000	46.4	50.0	52.0	55.4	58.9	61.9	64.0	63.6	61.6	54.5	43.5						
6300	43.9	45.7	48.6	52.4	55.5	59.1	61.9	61.3	59.6	51.9	41.2						
8000	40.1	44.0	46.4	51.7	55.0	57.8	60.4	60.3	58.1	50.8	37.9						
10000	37.6	41.0	44.2	49.3	52.6	56.4	58.2	58.7	57.0	47.0	33.3						
12500	34.5	37.7	41.2	46.5	50.1	52.4	54.2	55.7	52.9	42.5	27.5						
16000	27.3	30.7	34.5	39.9	44.2	46.6	48.6	49.1	45.8	34.1	15.8						
20000	20.6	24.7	29.0	34.6	38.9	41.5	43.5	43.2	40.5	26.0	3.5						
25000	10.9	15.7	20.4	26.7	30.2	33.0	34.1	33.4	27.9	12.0							
31500		3.1	8.9	15.4	20.0	22.0	21.9	20.1	12.3								
40000					1.1	3.0	3.1										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.7	61.6	63.1	65.8	69.1	70.3	72.3	71.9	71.2	66.4	59.7						
PNDB	71.1	74.0	76.2	79.6	82.2	84.4	86.4	85.9	85.9	80.9	71.2						

ORIGINAL PAGE IS OF POOR QUALITY

OC PAGE 1 FULL SCALE FAN PREDICTION PROGRAM PROG. DATE = MONTH 3 DAY 25 HR. 14.4

SOUND PRESSURE LEVELS (RE. 0.0002 DYNE/CM**2) AT 50. FT. FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	33. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
RADIAL 17. FT.	50																		
	63																		
	80																		
(5. M)	100	67.8	74.6	74.6	72.7	72.9	72.4	72.1	72.7	76.0	80.3	84.4							110.1
VEHICLE 8-FR	125	70.5	77.5	79.4	77.9	77.1	75.2	74.5	77.2	78.2	80.6	83.6							112.3
CONFIG 75-1K	160	72.0	77.3	77.4	77.4	77.4	77.4	76.4	77.4	79.2	81.6	84.1							111.2
LOC SCHENECTADY	200	71.0	71.4	71.9	72.9	74.1	75.9	76.9	78.9	80.0	83.1	85.1							112.2
DATE 1/17/75	250	74.5	74.6	75.6	76.7	77.1	77.1	78.6	79.4	80.2	82.1	83.6							112.7
RUN 58,3	315	73.9	74.4	75.4	77.2	77.4	77.9	78.4	79.2	80.2	82.1	83.6							112.9
TAPE	400	73.6	74.1	73.9	75.2	75.1	76.2	77.1	77.9	79.0	81.1	82.6							111.5
BAR 30.2 HG	500	71.9	72.7	73.2	74.5	74.9	76.2	77.4	78.7	79.7	80.9	81.9							111.4
(0.0 KG/M2)	630	75.2	74.9	75.4	77.5	78.4	79.5	80.6	81.4	81.5	82.1	81.4							113.6
TAMB 31. DEG F	800	74.9	75.7	75.4	76.7	77.4	78.5	79.9	80.7	81.8	82.1	81.1							113.1
(273. DEG K)	1000	72.7	73.7	73.7	75.5	76.7	78.2	80.4	81.4	82.2	82.6	79.9							113.1
TDET 22. DEG F	1250	72.0	71.7	72.9	75.0	76.7	77.3	79.6	80.7	82.0	82.2	79.4							112.6
(268. DEG K)	1600	71.2	71.5	71.7	74.1	75.4	76.5	78.4	78.9	79.5	79.9	77.4							110.9
HACT 0.55 GM/MB	2000	71.2	71.7	72.4	75.1	76.3	77.5	79.6	80.9	82.3	81.4	77.6							112.4
(.00055 KG/M3)	2500	74.4	75.0	75.9	78.1	81.3	82.3	84.3	86.1	88.5	84.9	80.4							117.3
RPA 6928. RPM	3150	75.6	78.7	79.1	84.4	87.5	89.5	91.8	91.8	93.5	89.9	84.7							123.1
(725. RAD/SEC)	4000	77.3	79.9	81.0	85.9	88.2	90.9	93.8	93.2	93.6	90.0	85.7							124.2
NFK 7123. RPM	5000	75.5	77.6	78.9	83.5	86.1	90.1	92.3	93.1	91.0	87.7	82.4							122.9
(746. RAD/SEC)	6300	73.5	75.8	77.5	81.3	84.4	87.2	90.2	91.6	92.2	87.1	81.9							121.8
NFD 8823. RPM	8000	73.0	75.6	77.7	81.7	84.7	88.3	90.2	91.2	92.5	88.0	82.4							122.0
(924. RAD/SEC)	10000	73.1	74.9	76.6	81.6	83.9	89.2	90.5	91.1	92.2	87.1	81.4							122.0
NO. OF BLADES 15	12500	71.9	73.2	75.2	80.9	83.9	88.9	89.9	91.2	92.5	86.8	81.0							121.9
FAN TIP SPEED	16000	69.0	70.4	72.2	77.8	81.0	84.3	87.5	89.7	90.0	84.6	79.6							120.0
605. FT/SEC	20000	68.9	69.6	72.3	77.9	80.4	83.8	87.0	89.2	90.5	85.5	79.5							120.4
	25000	67.4	68.6	70.9	77.5	79.5	82.9	85.7	87.8	88.9	84.1	77.8							119.6
	31500	66.9	67.2	70.2	76.3	78.3	81.8	84.2	86.8	87.3	82.4	75.3							119.2
	40000	64.5	63.7	66.4	71.3	74.5	77.9	81.0	82.3	83.2	79.0	69.3							116.6
	50000	63.2	61.9	64.5	67.1	69.6	72.8	76.3	76.6	77.6	74.1	64.6							113.3
	63000	63.8	60.9	63.8	62.8	64.2	66.5	69.3	69.1	69.7	67.8	61.4							109.4
	80000	66.4	62.3	65.0	62.9	63.0	63.5	64.4	63.6	64.0	63.2	61.4							110.7
OVERALL MEASURED																			
OVERALL CALCULATED		87.4	89.2	90.1	93.5	95.9	98.7	101.1	102.0	102.7	99.2	96.3							133.1
	PNDB	100.2	102.3	103.2	107.0	109.1	111.6	113.9	114.1	114.7	112.1	108.6							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE - MONTH 3 DAY 25 HR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT R.L. HUM. BAR)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53.	62.	71.	81.	91.	101.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.	0.
	FREQ.	(0.92)	(1.08)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	(0.	110.	110.	110.	110.	)
	50																		
	63																		
SIDELINE 200. FT.	80																		
(60.96 M)	100	44.1	51.9	52.6	51.0	51.3	50.7	49.9	49.6	51.6	53.8	54.3							
VEHICLE B-58	125	49.8	56.8	57.2	55.9	56.5	53.4	52.3	54.0	53.7	53.9	53.4							
CONFIG 79-1K	160	46.2	49.5	50.2	51.5	51.7	51.5	54.0	54.2	54.6	54.8	53.6							
LOC SCHENECTADY	200	47.1	48.4	49.6	51.0	52.3	53.9	54.4	55.6	55.2	56.1	54.4							
DATE 1/17/75	250	50.5	51.6	53.2	54.7	55.2	55.1	56.1	54.0	55.4	55.0	52.7							
RUN 58/3	315	51.6	53.2	53.9	55.1	54.4	55.0	56.0	55.6	55.3	54.0	52.5							
TAPE	400	49.6	50.9	51.3	53.9	53.1	54.0	54.4	54.3	53.9	53.7	51.3							
BAR 30.2 HG	500	47.5	49.3	50.5	52.2	52.9	53.9	54.0	54.9	54.5	53.3	50.3							
(0189. N/M2)	630	50.6	51.4	53.6	55.1	54.2	57.1	58.0	57.6	56.1	54.4	49.8							
TAMB 31. DEG F	800	50.2	52.1	52.5	54.3	55.1	56.0	56.8	56.7	56.2	54.2	49.0							
(273. DEG K)	1000	47.9	49.9	50.6	52.9	54.2	55.0	57.2	57.3	56.5	54.4	47.4							
TDET 22. DEG F	1250	47.0	47.8	49.0	52.2	54.1	55.5	56.3	56.4	56.1	53.7	46.6							
(268. DEG K)	1600	46.0	47.4	48.3	51.2	53.0	53.6	54.9	54.4	53.4	51.2	44.1							
MACT 0.55 GM/M3	2000	46.8	47.4	48.9	52.0	53.3	54.4	55.9	56.2	55.9	52.4	43.9							
(0.0055 KG/M3)	2500	47.8	50.5	52.2	55.9	58.1	60.0	60.4	61.2	61.0	55.6	46.2							
NFA 6925. RPM	3150	49.6	53.9	55.1	60.8	64.1	65.9	67.6	66.6	66.5	60.0	49.1							
(725. RAD/SEC)	4000	50.7	54.6	56.5	61.9	64.4	66.9	69.0	67.5	66.0	59.5	49.7							
NFK 7123. RPM	5000	48.6	52.0	54.2	59.3	62.1	65.2	67.4	67.1	63.1	56.7	48.7							
(746. RAD/SEC)	6300	45.7	49.4	52.1	56.4	59.7	63.3	64.6	64.7	63.3	54.8	43.4							
NFD 8823. RPM	8000	43.8	48.3	51.1	55.7	58.9	62.2	63.4	63.1	62.1	53.8	41.1							
(924. RAD/SEC)	10000	41.0	44.7	48.4	54.5	56.6	60.6	62.1	61.1	59.7	50.2	36.2							
NO. OF BLADES 15	12500	38.3	41.4	44.7	51.2	54.3	57.1	59.1	58.6	56.9	46.8	30.8							
FAN TIP SPEED	16000	33.5	34.4	37.9	44.3	47.9	50.8	52.0	52.8	49.3	37.3	19.2							
685. FT/SEC	20000	24.2	28.3	32.9	39.5	42.6	45.5	47.2	46.6	43.2	29.7	8.7							
	25000	14.1	19.4	24.3	31.4	34.9	37.6	38.6	37.1	32.8	18.2								
	31500		6.8	13.0	21.2	23.7	26.5	26.4	24.3	16.5									
	40000				1.8	9.3	7.9	7.3	1.8										
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED	SPL	51.7	54.7	56.0	59.1	71.3	73.6	75.2	74.6	73.4	66.5	63.5							
	PNLD	73.9	77.1	78.9	83.1	85.4	87.6	88.3	88.4	87.5	82.1	73.5							

PAGE 1 FULL SCALE DATA ACOUSTIC PROGRAM PROC. DATE = MONTH 3 DAY 25 HR. 14.4

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT R.H. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	69.8	73.4	72.4	72.4	73.4	74.2	74.4	75.7	79.0	83.8	87.6							112.8
VEHICLE R-55	125	75.8	78.1	77.4	77.1	78.7	78.9	78.9	80.9	81.2	84.1	86.9							114.3
CONFIG 75-1M	160	74.8	76.6	75.1	75.4	76.1	76.7	76.9	80.7	82.7	85.3	87.9							114.7
LRC SCHEDULED	200	74.0	74.6	74.4	75.4	77.1	78.9	80.1	81.9	83.2	84.1	86.1							115.2
DATE 1/17/75	250	73.1	73.1	72.9	73.9	81.4	82.1	83.1	84.1	85.2	87.1	88.3							117.4
RUN 5A/4	315	74.1	73.1	73.4	73.4	80.1	80.9	81.4	82.4	82.7	85.9	87.4							116.1
TAPE	400	74.3	74.1	74.9	75.2	78.6	79.2	80.4	81.4	83.0	84.6	86.1							114.9
BAR 30.2 MG	500	75.1	77.2	75.7	77.5	78.2	79.2	80.6	81.9	82.7	84.6	85.1							114.6
(1016.0. MB)	630	77.7	77.9	78.4	80.9	80.9	81.5	83.4	83.7	84.0	85.1	84.6							116.2
TEMP 31. DEG F	800	77.4	80.2	78.2	79.7	80.2	81.2	82.6	83.9	84.3	85.1	84.4							118.1
(273. DEG K)	1000	75.4	75.9	76.4	78.2	79.2	81.0	82.4	84.2	85.2	84.6	83.1							115.7
DEW PT 22. DEG F	1250	74.7	82.7	75.2	77.9	79.5	80.5	82.4	83.7	84.3	84.2	82.4							115.6
(268. DEG K)	1600	73.5	74.7	73.9	74.1	77.5	79.6	80.4	81.2	82.0	81.9	80.6							113.2
HUMIDITY 0.55 GM/M3	2000	75.9	75.7	77.4	79.1	80.5	82.5	84.1	86.4	87.5	86.4	82.9							117.4
(0.0055 KG/M3)	2500	74.4	74.3	79.4	83.1	84.9	86.3	87.1	89.9	91.0	85.7	82.4							120.3
NF1 7676. RPM	3150	75.9	73.7	81.1	85.1	87.5	90.2	92.0	92.3	94.0	88.6	84.8							123.5
(804. RAD/SEC)	4000	81.3	83.1	86.2	90.3	92.4	95.2	97.4	98.7	97.6	93.9	90.0							128.6
NF2 7892. RPM	5000	78.2	79.1	82.1	86.5	89.4	92.3	94.5	94.1	93.8	89.5	84.9							125.9
(826. RAD/SEC)	6300	79.2	80.9	83.5	87.3	90.2	92.0	94.7	95.3	95.2	89.4	84.4							129.7
NF3 8923. RPM	8000	78.5	78.1	80.7	85.7	88.9	91.5	94.2	95.2	94.2	89.2	84.9							125.3
(934. RAD/SEC)	10000	75.4	77.0	80.1	85.1	87.4	91.5	94.0	95.3	94.7	89.3	84.4							125.3
NO. OF BLADES 19	12500	75.4	76.2	78.9	84.7	87.6	91.4	93.4	95.7	95.0	89.3	83.7							125.5
FAN TIP SPEED	16000	72.5	73.6	76.5	81.5	84.7	88.3	91.2	93.7	92.5	86.8	82.4							123.5
670. FT/SEC	20000	71.6	73.0	76.5	82.0	84.7	87.8	91.3	93.9	94.0	88.0	82.8							124.4
	25000	71.1	72.1	74.7	80.8	83.5	86.9	89.2	92.5	92.9	87.3	81.8							123.0
	31500	69.4	73.9	74.2	79.9	82.3	85.8	88.2	91.1	91.8	85.9	78.8							123.2
	40000	65.5	67.0	70.9	76.9	78.6	82.1	85.0	86.7	87.5	81.8	72.8							120.8
	50000	64.0	63.4	67.5	73.4	73.6	77.5	80.6	81.3	81.3	77.9	67.3							117.4
	63000	64.1	61.4	64.3	64.3	67.4	70.2	73.3	72.9	73.5	70.5	62.7							112.7
	80000	64.4	64.8	65.0	62.9	63.3	64.0	65.4	65.6	66.0	64.7	61.4							111.0
OVERALL MEASURED																			
OVERALL CALCULATED		99.4	92.2	93.3	97.1	99.3	102.1	104.4	105.0	105.5	101.5	99.5							136.8
	PNdB	103.8	103.4	107.2	110.8	112.7	115.1	117.2	119.3	118.8	114.8	112.2							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 25 HR. 14.4

MODEL SURFACE PRESSURE LEVELS (SEQ. NO. 70 PERCENT OF L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.93)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	45.1	50.7	50.6	51.7	51.9	52.4	52.4	52.6	54.6	57.3	57.6						
125	52.6	55.3	55.2	55.7	55.9	55.1	54.6	57.8	54.7	57.4	56.6						
160	50.9	53.7	52.9	54.6	54.4	54.4	56.5	57.4	58.1	58.5	57.4						
200	53.1	51.7	52.1	53.5	55.3	58.9	57.7	58.6	58.5	59.1	57.4						
250	54.2	54.1	57.5	58.3	57.5	60.1	60.6	60.7	60.4	60.8	57.5						
315	54.1	56.3	56.9	57.1	59.2	58.8	58.7	58.9	57.8	58.8	58.3						
400	52.4	54.9	54.3	56.0	56.4	57.0	57.7	57.8	57.9	57.2	54.0						
500	50.7	51.8	53.8	55.2	56.2	58.9	57.8	58.2	57.5	57.8	53.6						
630	53.1	54.4	55.6	57.6	59.7	59.1	60.5	59.8	58.6	57.4	52.8						
800	52.7	56.6	55.3	57.1	57.9	58.7	59.6	59.9	58.7	57.2	52.1						
1000	49.6	52.2	53.4	55.4	56.7	58.3	59.4	60.8	59.5	54.4	50.7						
1250	49.7	50.8	53.0	55.1	56.9	57.7	59.1	59.4	58.4	59.7	49.6						
1600	48.2	50.6	50.4	53.2	54.7	58.1	58.9	58.7	55.9	53.2	47.4						
2000	49.8	51.4	53.9	56.9	57.6	59.4	60.4	61.7	61.1	57.4	49.1						
2500	51.9	53.5	55.7	58.9	61.6	63.0	63.2	64.9	64.4	58.3	48.2						
3150	51.0	53.9	57.1	61.6	64.1	66.6	67.9	67.1	67.8	54.9	49.9						
4000	55.2	57.8	61.8	64.3	66.6	71.1	72.8	73.0	70.8	62.5	54.8						
5000	51.4	53.5	57.4	62.3	65.3	66.1	69.7	68.1	64.9	58.5	48.2						
6300	50.4	53.7	57.1	62.4	65.4	67.9	69.1	68.5	64.3	57.1	45.9						
8000	47.3	50.5	54.1	59.7	62.2	65.3	67.4	67.1	64.3	59.3	42.6						
10000	44.3	47.7	51.9	57.5	60.1	63.8	65.6	65.6	62.2	52.5	38.2						
12500	41.5	44.4	48.4	54.9	58.1	61.6	62.6	63.1	59.4	48.5	32.8						
16000	34.8	37.6	42.1	49.1	51.6	54.5	56.5	56.8	51.8	39.5	22.8						
20000	27.9	31.6	37.1	43.8	46.8	49.5	51.5	51.4	46.7	32.2	10.9						
25000	17.8	22.9	28.1	35.7	39.9	41.6	43.1	41.9	36.8	19.4							
31500	3.3	10.3	17.8	24.7	27.7	30.5	30.4	28.5	20.3	0.3							
40000				5.9	9.3	11.7	11.3	6.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.7	67.7	68.9	72.5	74.5	76.7	78.2	78.8	76.1	71.1	66.9						
PHASE	77.5	80.4	83.0	87.0	89.0	91.2	92.6	92.7	90.6	84.8	77.1						

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ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE FAN SPINNING PROGRAM

PROG. DATE = MONTH 3 DAY 25 HR. 14.4

MODEL SCALE PRESSURE LEVELS (SQ. DEG. F. 7C PERCENT, 2 L. NUM. DAY)

ANGLES FROM INLET IN DEGREES (ARE RADIANS

	RPM	53. (.92)	64. (1.12)	73. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	58																		
	63																		
RADIAL 17. FT.	68																		
(5. IN)	100	69.0	72.6	73.1	77.9	74.4	74.7	74.9	75.2	74.5	83.8	87.4							112.5
VEHICLE BOSS	125	75.5	74.1	77.6	74.9	77.1	76.9	78.8	80.2	81.8	83.6	87.1							114.1
CONFIG 75-1R	150	74.5	74.9	75.1	76.2	75.9	75.9	78.1	80.2	82.5	85.3	87.1							114.3
LOC SCHENECTADY	200	73.8	73.6	74.1	75.4	77.1	79.2	80.1	81.4	83.2	85.5	88.1							115.1
DATE 1/17/75	250	74.2	74.4	79.4	80.7	81.1	81.6	83.4	84.4	85.8	87.1	87.8							117.2
RUN 5A/5	315	74.6	78.9	79.1	80.2	80.4	80.9	81.6	81.9	83.0	85.1	88.6							115.8
TAPE	400	76.8	76.9	77.2	78.5	78.1	78.9	80.1	81.2	82.2	84.1	85.9							114.8
BAR 30.2 IN	500	74.6	74.9	25.9	77.5	77.4	79.3	80.4	82.2	82.5	83.9	84.9							114.3
(1018.8. N/M2)	630	77.2	76.9	78.2	79.7	80.4	81.7	83.1	83.4	84.8	84.9	84.6							118.8
TAMB 31. DEG F	800	77.2	77.4	77.9	79.5	79.7	81.2	82.6	83.9	84.5	84.9	84.1							119.9
(273. DEG K)	1000	74.7	75.9	74.2	79.5	79.2	71.2	82.9	84.4	84.7	84.8	82.9							115.7
T-ET 22. DEG F	1250	75.2	74.7	75.9	78.8	79.2	80.8	82.6	83.4	84.5	83.9	82.4							115.2
(268. DEG K)	1600	71.7	73.2	73.9	76.1	77.5	78.8	80.1	80.9	82.8	81.4	80.4							113.8
HACT 0.55 GM/M3	2000	73.2	75.5	76.9	78.6	80.9	82.9	83.8	84.2	84.5	85.7	82.9							117.3
(0.0355 LB/M3)	2500	77.2	77.7	79.1	82.5	84.9	86.9	88.1	89.6	91.3	84.2	82.1							120.4
WFA 7675. RPM	3150	75.9	79.3	81.3	84.6	87.5	89.7	92.3	92.3	94.2	89.1	84.3							123.9
(804. M3/SEC)	4000	81.9	83.1	86.3	90.3	92.4	95.2	97.8	98.7	98.1	93.3	89.7							128.7
WFK 7891. RPM	5000	78.8	79.6	82.1	84.8	89.1	92.1	94.9	94.6	94.8	89.7	84.8							125.2
(420. M3/SEC)	6300	78.9	80.3	82.5	87.6	89.9	92.8	94.7	95.1	95.2	89.6	83.9							125.6
WFB 8023. RPM	8000	76.2	78.1	80.9	86.7	87.7	91.5	94.2	94.2	95.2	89.7	84.6							123.4
(924. M3/SEC)	10000	75.1	77.3	80.6	85.1	87.2	91.5	94.0	95.6	94.7	89.3	84.2							123.4
NO. OF BLADES 15	12500	75.1	75.7	79.4	84.7	87.6	91.2	92.9	95.5	95.0	89.3	84.2							123.3
FAN TIP SPEED	16000	72.5	73.8	76.7	81.5	84.7	87.8	91.8	93.7	93.8	87.1	82.4							121.5
676. FT/SEC	20000	71.6	73.3	76.5	81.5	84.7	87.8	91.6	94.2	94.8	88.8	82.3							124.4
	25000	78.9	72.1	75.2	80.5	83.7	86.6	90.7	93.8	93.9	87.3	81.3							124.4
	31500	69.9	73.7	24.2	79.3	82.5	85.8	88.9	91.3	91.8	89.4	78.8							123.4
	40000	64.8	67.9	78.9	75.5	78.1	81.4	85.8	87.8	87.5	82.8	72.3							120.8
	50000	64.7	63.4	67.8	72.2	73.3	76.5	80.6	81.6	81.5	77.9	67.3							117.4
	63000	64.1	61.4	64.5	68.6	68.9	69.5	73.1	72.9	73.7	78.5	62.7							112.8
	80000	64.4	65.9	65.8	63.4	63.5	64.5	65.7	65.4	65.7	64.5	61.4							111.7
OVERALL MEASURED																			
OVERALL CALCULATED		98.4	91.4	93.3	97.8	99.2	101.9	104.4	105.8	105.8	101.8	99.3							130.8
	PWL	103.8	100.8	107.1	110.7	112.6	115.8	117.2	118.3	118.4	114.7	111.9							

OC PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 25 HR. 14.4

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT R.L. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS

	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
FREQ. 50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	45.4	49.9	51.1	52.2	52.8	52.9	52.7	52.1	54.1	57.3	57.3						
VEHICLE R=55 125	51.8	55.3	55.5	55.2	55.5	55.1	56.3	57.0	56.5	56.9	56.9						
CONFIG 75-IN 160	51.7	52.0	52.9	54.3	54.2	54.9	56.8	56.9	57.8	58.5	56.6						
LOC SCHENECTADY 200	49.3	50.7	51.8	53.5	55.3	57.2	57.7	58.1	58.5	58.6	57.4						
DATE 1/17/75 250	54.0	55.3	57.0	58.7	59.2	59.5	60.8	61.0	60.1	60.0	57.0						
RUN 58/5 315	54.4	55.7	56.7	58.1	59.4	58.8	59.0	58.4	58.0	57.8	55.5						
TAPE 400	52.3	53.6	54.6	56.3	56.1	56.7	57.4	57.5	57.1	56.9	56.5						
BAR 30.2 HG 500	50.2	51.5	53.2	55.2	55.3	56.7	57.6	58.4	57.3	56.3	53.3						
(1890. N/M2) 630	52.6	53.4	55.4	57.4	58.2	59.3	60.2	59.6	58.6	57.1	52.8						
TAMB 31. DEG F 800	52.5	53.8	55.0	57.2	57.3	58.7	59.6	59.9	59.0	56.9	52.0						
(273. DEG K) 1000	50.9	52.2	53.1	54.6	56.7	58.6	59.7	60.3	59.0	56.4	50.4						
TWET 22. DEG F 1250	50.2	50.8	52.8	55.3	56.5	58.0	59.3	59.1	58.6	55.5	49.6						
(268. DEG K) 1600	48.5	49.1	50.6	53.2	54.7	55.5	56.6	56.4	55.9	52.7	47.1						
HACT 0.55 GM/M3 2000	49.8	51.2	53.4	55.5	57.1	58.9	59.9	61.4	62.1	56.6	49.1						
(.00059 KG/M3) 2500	51.5	53.2	56.2	59.4	61.5	62.7	64.2	64.7	64.6	56.9	47.9						
NFA 7675. RPM 3150	50.9	54.1	57.3	61.1	64.1	66.1	68.1	67.1	67.2	59.3	49.4						
(804. RAD/SEC) 4000	55.2	57.8	61.5	66.3	68.6	71.1	72.8	73.0	70.5	62.7	53.7						
NFK 7891. RPM 5000	51.1	54.0	57.4	62.3	65.1	67.8	69.9	68.6	66.1	58.7	48.0						
(826. RAD/SEC) 6300	50.2	53.9	57.1	62.6	65.2	67.0	69.1	68.2	66.3	57.3	45.4						
NFD 8823. RPM 8000	47.1	50.5	54.3	59.7	61.9	65.2	67.4	67.1	64.8	55.5	43.3						
(924. RAD/SEC) 10000	44.3	47.9	52.4	57.5	59.8	63.9	65.6	65.6	62.2	52.5	39.0						
NO. OF BLADES 15 12500	41.2	43.9	48.9	54.9	58.1	61.3	62.1	62.9	59.4	48.5	33.3						
FAN TIP SPEED 16000	34.8	37.8	42.4	48.1	51.6	54.3	56.3	56.8	52.3	39.8	22.9						
676. FT/SEC 20000	27.0	31.8	37.1	43.3	46.8	49.5	51.2	51.6	46.7	32.2	9.8						
25000	17.6	22.9	28.6	35.4	39.1	41.4	43.6	42.4	37.8	19.4							
31500	2.8	10.1	17.0	24.2	28.0	30.5	31.1	28.8	20.3								
40000				5.4	8.8	11.0	11.3	6.8									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.6	66.6	68.8	72.4	74.4	76.6	78.3	78.0	76.4	71.0	66.8						
PNDB	77.5	79.9	82.9	86.9	88.9	91.1	92.7	92.7	90.9	84.5	78.8						

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ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 25 HR. 14.5

MODEL SOUND PRESSURE LEVELS (REF. 0.0002 DYNE/CM**2) AT 70 PERCENT R.P.M. (MAP, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	63. (1.10)	73. (1.27)	83. (1.45)	93. (1.62)	101. (1.76)	111. (1.94)	122. (2.13)	132. (2.30)	145. (2.53)	156. (2.72)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	69.7	72.7	75.9	78.2	78.2	76.2	73.0	69.8	72.2	74.3	74.6							109.3
125	66.7	69.7	71.7	75.2	75.4	68.4	67.3	71.5	72.2	71.8	74.9							104.7
160	65.5	65.4	65.7	68.7	68.6	67.1	69.3	70.5	72.0	73.5	76.2							103.9
200	64.2	64.9	65.2	66.2	67.5	69.1	69.8	71.5	72.7	74.8	77.1							104.7
250	67.5	68.4	68.0	70.0	71.0	70.9	71.8	72.5	72.7	74.0	75.1							105.5
315	68.7	70.2	70.4	71.5	71.5	72.2	71.8	72.5	72.7	73.9	74.9							106.0
400	66.5	67.2	67.7	69.0	69.1	69.9	70.3	71.3	72.0	73.0	73.9							104.3
500	66.3	67.0	67.3	69.0	69.1	70.5	71.8	72.8	73.5	74.0	74.2							105.1
630	69.8	70.2	71.4	72.5	73.1	74.5	75.8	76.3	76.2	76.3	74.7							108.3
800	69.1	70.0	69.9	71.5	72.1	73.7	74.5	76.0	77.0	76.8	74.4							107.9
1000	66.1	67.0	67.4	70.3	71.1	73.2	75.0	77.3	78.7	78.3	73.4							106.4
1250	69.1	69.9	70.2	72.6	74.5	76.8	78.5	80.9	82.2	82.8	78.2							112.0
1600	64.7	64.5	65.7	67.9	69.7	71.8	73.0	74.8	75.3	75.1	71.2							105.9
2000	62.9	63.8	64.7	66.9	68.9	71.3	73.0	76.0	77.5	78.1	73.7							107.2
2500	70.6	72.3	74.5	76.9	79.9	82.8	84.9	86.7	86.7	87.1	81.2							117.8
3150	69.1	71.3	72.3	74.4	79.4	82.0	84.4	85.7	86.7	85.3	79.9							116.4
4000	70.7	72.9	74.2	79.4	81.9	85.4	86.6	86.8	86.8	87.5	81.5							119.8
5000	67.9	68.9	71.2	74.8	79.8	81.9	85.0	85.4	85.0	83.4	77.4							115.8
6300	66.4	67.6	70.0	73.9	76.6	80.7	83.2	84.4	85.4	82.9	76.9							115.8
8000	66.2	67.4	69.0	73.5	76.7	80.5	82.6	84.3	85.5	83.1	76.4							115.0
10000	64.3	65.8	67.6	72.6	76.3	81.0	82.2	84.7	85.9	81.8	76.0							115.1
12500	64.5	65.3	67.0	71.5	75.5	78.4	81.1	83.8	85.4	81.2	75.8							114.4
16000	62.2	63.2	64.5	69.1	73.4	76.5	79.4	82.3	83.4	79.7	73.9							113.0
20000	61.0	61.6	63.3	68.5	72.9	75.8	78.9	81.3	83.0	79.2	72.6							112.8
25000	59.3	60.4	61.4	67.6	71.7	74.4	78.5	79.1	80.4	77.0	70.1							111.2
31500	57.8	58.7	60.2	66.9	70.2	73.6	75.6	77.6	79.3	75.6	68.1							110.9
40000	55.4	56.5	57.7	63.1	66.3	69.6	71.7	73.6	75.2	71.9	62.1							106.3
50000	55.9	54.7	57.2	59.9	61.5	64.5	67.2	67.9	69.5	67.3	57.4							105.0
63000	54.0	53.4	56.3	55.9	56.8	58.5	60.7	60.2	61.7	60.2	54.2							101.4
80000	58.1	57.9	56.0	55.2	55.2	54.7	55.6	55.2	55.7	54.7	52.9							102.0
OVERALL MEASURED																		
OVERALL CALCULATED	81.3	82.6	84.2	87.1	89.5	92.3	94.1	95.9	97.0	95.1	90.3							120.9
PWL	93.9	95.4	96.9	100.6	103.0	105.9	107.3	109.2	109.8	108.6	103.7							

FULL SCALE DATA PREDICTION PROGRAM

PROG. DATE - MONTH 3 DAY 25 HR. 14.5

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT R.L. NUM. DAT

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	134. (2.34)	146. (2.52)	156. (2.73)	0. (0.	0. (0.	0.)10.	0. ,10.	0.)10.	0.)10.	0.)
FREQ. 50																		
63																		
80																		
100	46.1	50.0	53.4	56.3	56.5	55.2	50.8	45.7	47.8	47.7	46.4							
125	43.0	45.9	49.5	48.5	48.9	46.6	45.0	48.4	47.7	45.1	44.7							
160	41.6	42.5	43.4	44.9	44.5	45.3	46.9	47.3	47.3	46.7	45.7							
200	40.3	42.0	42.8	44.3	45.7	47.2	47.3	48.2	48.0	47.8	46.5							
250	43.4	45.4	46.5	48.5	49.2	48.8	49.2	49.1	47.8	46.9	44.3							
315	44.6	47.0	47.9	49.4	49.5	50.0	49.2	49.8	47.7	46.5	43.8							
400	42.2	43.9	45.1	46.8	47.0	47.7	47.6	47.6	46.9	45.8	42.6							
500	41.9	43.6	45.2	46.8	46.9	48.1	49.0	49.0	48.3	46.5	42.6							
630	45.3	46.7	48.7	50.2	50.9	52.1	52.9	52.4	50.9	48.8	42.9							
800	44.4	46.4	47.0	49.1	49.7	51.2	51.5	52.0	51.5	48.8	42.3							
1000	41.3	43.2	44.4	47.7	48.8	50.6	51.9	53.1	53.0	50.1	41.0							
1250	44.1	44.1	47.0	49.9	52.0	54.0	55.2	56.5	56.4	54.4	43.4							
1600	39.7	40.4	42.3	45.0	46.9	48.8	49.5	50.3	49.1	46.4	37.9							
2000	37.4	39.5	41.1	43.8	46.0	48.1	49.3	51.3	51.1	49.0	39.9							
2500	44.9	47.8	50.9	53.7	56.8	59.4	60.1	61.8	62.1	57.7	47.0							
3150	43.1	46.4	48.3	52.9	56.0	58.4	60.2	60.4	59.7	55.5	43.9							
4000	44.2	47.6	49.8	55.4	58.0	61.4	61.9	63.0	61.3	56.9	45.8							
5000	41.0	43.3	46.4	50.5	54.7	57.6	60.1	59.4	57.1	52.4	40.8							
6300	38.6	41.2	44.6	48.9	51.8	55.8	57.5	57.8	56.5	50.5	38.5							
8000	36.0	39.8	42.4	47.5	50.8	54.5	55.8	56.1	55.0	48.9	35.1							
10000	33.2	36.5	39.4	45.1	49.3	53.4	53.8	54.7	53.4	44.9	30.6							
12500	30.6	33.4	36.4	41.7	46.0	48.6	50.3	51.2	49.8	40.4	24.1							
16000	23.7	27.2	30.2	35.9	40.3	43.9	44.7	45.8	42.8	32.5	13.5							
20000	16.4	20.1	23.9	30.6	35.8	37.4	39.1	38.7	35.7	23.4								
25000	6.0	11.2	14.9	22.5	27.0	29.1	29.5	28.4	23.5	9.1								
31500			3.1	11.7	15.6	16.2	17.8	15.1	8.5									
40000																		
50000																		
63000																		
80000																		
OVERALL CALCULATED	55.9	58.3	60.7	63.5	65.6	67.8	68.8	69.4	68.5	64.6	56.6							
PNDB	67.4	70.2	72.5	76.8	79.2	82.0	82.8	83.6	82.3	78.3	68.4							

SITE LINE 200. FT.
(60.96 M)
VEHICLE P-55
CONFIG 75-1K
LOC SCHENECTADY
DATE 1/17/75
RUN 55/6
TAPE
BAR 30.2 MG
(1020. N/M2)
TAMB 31. DEG F
(273. DEG K)
T-ET 22. DEG F
(268. DEG K)
HACT 0.55 GM/M3
(.00055 KG/M3)
NFA 5300. RPM
(553. RAD/SEC)
NFK 5531. RPM
(579. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
478. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR: 20.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	68.1	68.9	71.5	74.0	74.5	74.5	71.2	67.5	66.7	70.6	73.9							106.0
(5. M)	100	73.4	74.2	76.5	79.0	79.5	79.5	76.0	70.8	68.8	72.9	75.7							110.6
VEHICLE R-55	125	67.0	69.0	71.3	68.6	71.8	71.8	67.1	70.8	71.6	71.9	74.3							104.8
CONFIG 75-2	160	64.7	65.9	65.3	65.3	65.8	71.8	68.0	68.8	70.5	72.4	74.9							103.3
LOC SCHENECTADY	200	64.5	66.3	65.6	65.6	67.1	73.1	69.8	70.4	72.1	74.4	75.5							104.7
DATE 01-16-75	250	66.9	67.0	68.6	68.8	68.8	72.8	70.8	71.6	72.9	73.2	75.3							105.2
RUN 71-2	315	66.7	68.1	68.0	68.9	69.1	73.1	70.1	70.4	70.9	74.2	73.0							104.5
TAPE 25	400	65.9	66.5	66.5	67.5	68.0	72.5	70.0	70.5	71.3	72.6	73.2							104.1
BAR 30.0 HG	500	64.6	65.4	66.4	67.2	68.2	70.7	70.9	71.4	72.7	73.3	72.8							104.2
(01407. N/M2)	630	67.7	66.3	67.8	68.8	70.6	71.1	73.5	74.4	74.6	74.7	73.0							106.0
TAMB 39. DEG F	800	66.0	65.6	67.6	67.9	69.1	69.4	71.8	72.7	73.4	74.2	71.0							104.7
(276. DEG K)	1000	64.2	63.5	65.8	67.1	68.3	68.1	72.0	73.1	74.4	75.2	70.5							105.0
TWET 34. DEG F	1250	62.8	64.0	70.4	68.2	67.9	67.9	73.3	73.4	76.4	76.3	73.0							107.1
(274. DEG K)	1600	61.2	62.5	64.0	64.5	65.7	66.0	69.2	71.1	70.8	72.7	69.6							102.3
NACT 4.03 GM/M3	2000	60.8	61.6	63.6	64.2	65.4	65.8	67.0	67.4	68.7	69.8	67.2							100.7
(.00403 KG/M3)	2500	61.0	62.6	64.3	65.6	67.3	64.5	69.0	68.6	69.9	71.0	66.7							101.4
NFA 5447. RPM	3150	60.3	61.4	63.1	64.4	66.6	63.8	69.0	68.9	71.0	71.4	66.5							101.5
(570. RAD/SEC)	4000	59.8	61.9	62.8	64.7	67.1	63.8	69.5	72.7	75.5	76.4	69.2							104.6
NFK 5561. RPM	5000	59.9	60.7	62.6	64.2	66.6	63.5	72.7	74.5	75.0	75.4	68.7							105.0
(582. RAD/SEC)	6300	61.8	62.7	64.7	65.9	67.9	65.5	74.4	77.9	79.9	78.3	71.1							108.3
NFD 8826. RPM	8000	63.2	64.4	66.8	69.1	71.5	69.0	77.7	80.3	81.8	80.7	73.4							110.8
(924. RAD/SEC)	10000	70.4	72.2	76.6	80.3	84.3	79.4	87.6	89.0	90.2	87.6	83.0							119.9
NO. OF BLADES 15	12500	72.6	74.9	80.4	86.0	89.7	83.5	90.5	90.2	90.4	88.9	81.6							122.1
FAN TIP SPEED	16000	69.6	67.9	71.4	75.3	79.3	74.8	84.3	86.5	86.7	82.8	74.8							116.7
476. FT/SEC	20000	63.9	65.7	68.3	71.7	75.0	71.9	82.8	84.4	87.3	82.6	73.7							116.2
	25000	60.5	63.0	64.1	67.8	72.1	69.0	78.9	81.5	83.8	80.5	71.3							113.6
	31500	59.2	61.5	62.8	67.2	70.8	67.8	77.3	80.3	81.5	78.2	69.1							112.8
	40000	59.1	61.4	60.9	64.5	67.8	65.6	74.9	77.3	79.4	76.5	65.8							111.7
	50000	56.3	57.8	56.3	57.5	60.8	58.8	67.9	69.1	70.8	69.5	57.8							105.8
	63000	52.3	53.0	51.2	50.6	52.7	51.7	58.4	59.0	60.8	58.2	51.1							98.8
	80000	57.2	57.9	55.2	54.1	53.9	55.4	55.0	54.5	55.0	52.8	53.6							102.8
OVERALL MEASURED																			
OVERALL CALCULATED		80.8	82.0	85.3	88.9	92.1	88.3	94.3	93.2	96.3	93.6	89.1							120.9
PNDB		88.8	90.0	93.3	96.9	97.5	95.3	100.6	101.9	103.1	102.3	98.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	51, (0.92)	62, (1.08)	71, (1.24)	81, (1.41)	91, (1.58)	101, (1.76)	111, (1.94)	122, (2.13)	133, (2.32)	145, (2.52)	154, (2.73)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)	0, (0.)
	50																	
	63																	
SIDELINE 200. FT,	80	44.5	46.3	49.4	52.3	53.0	52.8	49.1	44.5	42.4	44.1	44.0						
(60.96 M)	100	49.7	51.5	54.4	57.3	57.9	57.8	53.8	47.7	44.4	46.3	45.7						
VEHICLE R-59	125	48.2	46.2	49.1	46.8	50.2	50.0	44.8	47.7	47.1	45.2	44.0						
CONFIG 75-2	160	40.8	42.6	43.0	43.4	44.0	49.9	45.6	45.5	45.9	45.5	44.0						
LOC SCHENECTADY	200	46.5	43.3	43.5	43.7	45.3	51.1	47.4	47.0	47.4	47.5	44.9						
DATE 01-10-75	250	42.4	44.0	46.2	46.8	47.0	50.8	48.3	48.2	48.0	46.1	44.4						
RUN 71-2	315	42.6	44.9	46.1	46.8	47.1	51.0	47.5	46.8	45.9	44.9	41.9						
TAPE 25	400	41.6	43.2	43.9	45.3	46.0	50.1	47.3	46.9	46.2	45.2	41.9						
BAR 30.0 HG	500	40.4	42.0	43.7	44.9	46.0	48.3	46.1	47.7	47.5	45.7	41.3						
(0140; N/M2)	630	43.2	42.8	45.0	46.5	48.3	48.7	50.6	50.5	49.2	46.9	41.2						
TAMB 38; DEG F	800	41.3	42.0	44.7	45.4	46.8	46.8	48.8	48.7	47.9	46.3	38.9						
(276; DEG K)	1000	39.4	39.8	45.8	44.5	45.8	45.4	48.8	49.0	48.7	47.0	38.0						
TWET 34; DEG F	1250	37.8	40.9	47.2	45.4	45.3	45.1	50.0	52.1	50.6	49.9	40.2						
(274; DEG K)	1600	36.9	38.4	40.6	41.6	43.0	43.0	45.7	46.6	44.7	43.9	36.4						
WACT 4.03 GM/M3	2000	35.3	37.5	45.0	41.1	42.4	40.7	45.3	42.7	42.3	40.8	33.5						
(.00403 KG/M3)	2500	35.6	38.0	40.6	42.4	44.2	41.2	45.1	45.7	43.3	41.7	32.5						
NFA 5447. RPM	3150	34.3	36.5	39.1	40.9	43.2	40.2	44.8	43.7	44.0	41.5	31.9						
(570; RAD/SEC)	4000	33.3	36.6	38.4	40.7	43.3	39.7	44.8	47.0	47.9	45.8	33.2						
NFK 5561; RPM	5000	33.0	35.1	37.9	40.0	42.6	39.2	47.8	48.4	47.1	44.4	32.1						
(582; RAD/SEC)	6300	34.0	36.3	39.2	41.0	43.1	40.6	48.8	51.0	51.0	48.0	32.6						
NFB 8823. RPM	8000	34.1	36.8	40.2	43.1	45.7	42.9	50.9	52.2	51.4	48.5	32.1						
(924; RAD/SEC)	10000	39.3	42.9	48.4	52.8	56.9	51.0	59.2	59.1	57.7	50.8	37.8						
NO. OF BLADES 18	12500	36.9	43.8	49.9	56.2	60.2	53.7	59.7	57.6	54.8	48.1	30.9						
FAN TIP SPEED	16000	27.1	31.9	37.1	41.9	46.2	41.3	49.6	49.7	46.1	39.7	14.5						
476; FT/SEC	20000	16.9	24.3	28.9	33.5	37.1	33.6	43.8	41.9	40.8	26.9	1.8						
	25000	7.2	13.8	17.5	22.7	27.5	23.8	31.7	30.8	27.0	12.7							
	31500		0.8	5.7	12.0	16.2	12.4	19.5	17.8	10.7								
	40000							1.1										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		59.8	56.9	60.2	62.7	64.9	63.5	65.2	64.6	63.3	59.8	54.4						
	PNDB	61.6	64.0	67.9	69.6	72.2	70.1	74.1	73.5	71.6	70.6	60.8						

MODEL SOUND PRESSURE LEVELS (50; DEG, F, 70 PERCENT REL, HUM, DAY)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
20																			
63																			
BARIAL 17. FT. 80	80.9	83.2	84.7	85.7	86.2	80.5	87.8	88.2	78.2	74.8	77.9								103.8
S. MI 100	74.4	76.8	74.3	72.8	70.8	71.8	70.5	71.0	71.5	75.6	79.2								107.8
VEHICLE R555 125	68.5	70.5	72.1	71.3	73.1	73.6	71.1	73.3	74.8	76.2	79.0								107.6
CONFIG 7582 160	68.2	69.0	68.5	69.3	69.3	72.5	72.8	72.5	74.8	77.4	79.2								107.1
LOC SCHENECTADY 200	67.2	68.1	68.3	69.6	70.6	74.1	73.8	75.9	76.6	79.4	80.3								108.7
DATE 81030-75 250	70.0	70.8	72.1	72.8	73.1	74.3	75.1	75.6	76.6	78.2	79.3								109.3
RUN 7103 315	71.8	71.8	72.3	73.1	72.4	73.6	74.3	74.4	75.6	77.2	78.3								108.3
TAPE 800032 400	69.8	70.7	73.8	71.8	71.8	72.5	73.7	74.3	75.8	77.1	77.4								107.8
BAR 30.0 HG 500	68.1	69.4	71.7	70.7	71.7	71.4	74.6	75.4	76.2	77.8	77.1								107.8
101487. N/M2) 630	69.2	70.8	72.3	72.6	74.3	72.8	76.8	77.6	77.8	78.2	77.8								109.4
TAMB 30. DEG F 800	68.8	72.3	69.9	71.4	72.1	78.9	75.3	76.2	76.7	77.2	75.3								108.1
(276. DEG K) 1000	66.7	70.8	68.6	70.1	71.8	69.3	75.5	76.1	78.1	77.8	74.5								108.1
TWET 33. DEG F 1250	66.3	74.3	67.9	69.4	70.9	67.9	74.6	75.7	77.0	77.8	74.3								107.7
(274. DEG K) 1600	68.2	80.2	69.2	71.8	73.9	74.5	77.9	77.3	79.8	81.4	74.9								110.1
WAST 3.53 GM/M3 2000	64.8	69.1	66.8	68.4	69.8	69.6	71.8	71.9	74.8	74.8	71.7								104.8
(.00333 KG/M3) 2500	65.3	66.8	67.3	69.1	70.8	67.8	72.2	71.1	73.2	72.8	70.4								104.4
RPM 6229. RPM 3150	64.8	65.9	67.1	69.2	70.9	68.8	73.8	73.2	77.0	76.4	71.5								106.4
(652. RAD/SEC) 4000	63.4	64.4	66.4	68.7	70.9	68.5	73.3	75.7	78.3	76.4	71.8								107.1
BPF 4339. RPM 5000	63.8	64.7	66.1	68.3	71.2	67.5	77.8	78.2	79.3	78.8	72.2								108.8
(866. RAD/SEC) 6300	64.9	66.3	68.2	70.8	72.4	69.1	78.8	80.7	83.4	84.3	73.1								111.4
BPF 8823. RPM 8000	66.5	68.7	70.1	72.9	74.6	71.8	81.8	84.1	85.6	87.8	75.9								114.2
(1231. RAD/SEC) 10000	69.5	71.8	74.2	77.7	80.8	77.5	85.2	87.3	88.3	88.2	78.5								117.8
BPF 13285. RPM 12500	74.4	76.8	83.8	87.6	90.6	87.3	93.1	94.5	92.2	86.2	83.1								124.4
FAN TIP SPEED 16000	69.9	72.6	75.9	81.1	84.3	80.8	89.1	91.1	90.8	84.8	78.2								121.1
944. FT/SEC 20000	67.7	70.4	73.9	77.4	80.5	77.7	84.5	88.7	91.3	85.4	77.5								120.2
25000	66.2	67.7	69.3	73.2	76.8	74.2	83.8	85.7	87.7	83.5	75.5								117.6
31500	65.8	66.8	67.9	72.5	75.6	72.6	84.2	84.7	85.6	81.8	73.2								116.8
40000	64.5	66.1	65.8	69.5	73.8	72.6	79.6	81.5	82.9	78.2	68.6								115.6
50000	62.7	63.6	62.2	63.1	68.4	66.4	73.8	74.8	74.9	71.8	62.5								110.2
63000	58.2	60.5	58.8	57.3	58.4	59.1	63.1	63.5	63.8	61.8	57.7								102.8
80000	54.5	54.8	54.6	53.9	53.2	55.4	54.6	53.9	52.7	52.8	53.1								95.4
OVERALL MEASURED																			
OVERALL CALCULATED	83.8	85.8	87.3	90.5	93.2	90.5	96.4	98.6	98.8	95.2	91.6								120.5
PNDB	91.7	93.5	94.1	95.9	97.8	98.6	101.6	103.1	104.9	103.8	98.6								

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BABE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE -- MONTH 04 DAY 0 HR. 0.0

MODEL SOUND PRESSURE LEVELS (50. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
38																	
63																	
SIDELINE 2000 FT 60	37.8	40.5	42.7	44.1	44.7	46.8	44.8	45.2	45.9	47.9	48.0						
(60.96 M) 100	48.7	53.2	52.2	51.1	49.2	50.8	48.3	48.0	47.1	49.1	49.2						
VEHICLE A859 125	44.7	47.7	49.9	49.5	51.4	51.8	48.8	50.2	50.3	49.5	48.8						
CONFIG 7502 160	44.3	46.1	46.3	47.4	47.5	50.6	49.6	49.3	50.2	50.5	48.8						
LOC SCHENECTADY 200	43.8	45.4	46.0	47.7	48.0	52.1	51.4	52.5	51.9	52.9	49.6						
DATE 81-30-75 220	45.9	47.7	49.7	50.0	51.2	52.3	52.6	52.2	51.8	51.1	48.4						
OLD 71-3 310	46.8	48.9	49.9	51.0	50.4	51.9	51.7	50.8	50.7	49.7	47.2						
TAPE 5800B2 400	45.4	47.4	51.2	48.8	49.7	50.3	51.8	50.6	50.7	49.7	46.1						
BAR 30.0 HG 500	43.9	46.8	49.0	48.4	49.9	49.1	51.8	51.7	51.8	49.7	45.9						
(1487. N/M2) 630	44.7	47.3	49.5	50.2	52.1	50.4	53.9	53.0	52.2	52.0	49.2						
TAMB 30. DEG F 800	44.1	46.7	47.8	48.9	49.8	48.7	52.1	52.2	51.1	49.2	43.1						
(276. DEG K) 1000	41.9	43.8	45.5	47.5	49.3	48.7	52.4	52.6	52.4	49.0	42.0						
TWET 33. DEG F 1250	41.3	50.4	44.7	46.7	48.3	49.1	51.3	51.4	51.1	49.4	41.5						
(274. DEG K) 1600	43.8	44.2	45.9	48.9	50.2	48.5	54.4	52.8	53.7	52.7	41.8						
WACT 3.33 GM/M3 2000	39.4	44.8	43.3	45.3	48.2	48.4	48.1	47.2	47.6	45.5	38.0						
(.00333. KG/M3) 2500	39.8	42.1	43.6	45.9	47.7	45.7	48.3	46.2	46.6	43.6	36.2						
RPS 6000. RPM 3150	38.8	41.1	43.1	45.7	47.5	42.4	49.6	47.9	48.8	46.5	36.6						
(628. M**2/SEC) 4000	36.8	39.1	41.9	44.8	47.1	42.8	48.6	50.8	51.0	45.8	35.0						
RPR 6300. RPM 5000	36.8	39.1	41.4	44.3	47.1	43.3	52.1	52.2	51.4	46.9	35.6						
(660. RAD/SEC) 6300	37.1	39.9	42.8	45.8	47.8	43.1	52.3	53.0	54.5	48.6	34.7						
RPD 8823. RPM 8000	37.1	40.0	43.5	46.2	48.7	45.8	54.2	56.0	55.2	48.8	34.6						
(924. RAD/SEC) 10000	38.6	42.4	46.9	50.3	52.5	49.9	54.8	57.4	55.8	47.2	33.3						
NO. OF BLADES 18 12,500	42.5	46.0	50.3	53.8	57.8	61.8	57.5	61.3	61.9	56.6	47.4	32.2					
FAN TIP SPEED 16000	52.4	56.4	61.0	65.7	67.7	71.2	67.2	74.4	74.2	68.1	57.6	39.2					
946. FT/SEC 20000	63.1	67.8	34.1	39.2	42.6	39.3	46.7	46.1	44.8	39.8	4.7						
25000	52.9	10.5	22.7	28.1	32.2	26.0	38.9	36.6	36.8	69.8							
31500		6.2	18.8	17.4	21.1	17.2	23.4	22.2	14.8								
40000					3.8	8.2	9.8	4.3									
50000																	
63000																	
80000																	
OVERALL SAE 1ABP 1/3	57.2	60.3	64.6	68.3	68.3	69.4	67.3	67.3	68.9	63.9	59.6						
1/1	59.2	64.3	68.9	71.9	73.6	73.2	76.6	76.8	77.8	73.8	64.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (DB, DEB, F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	23. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.72)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17, FR,	80	61.9	64.2	64.5	65.7	66.0	67.7	70.0	71.7	73.5	77.6	81.4							106.6
(5, N)	100	66.7	72.5	72.0	71.9	72.0	71.3	70.3	72.0	75.3	79.4	83.2							108.9
VEHICLE R-59	125	73.2	70.8	70.1	72.6	72.3	74.0	74.3	77.1	77.8	77.7	83.0							111.9
CONFIG 75-2	160	70.9	72.2	71.5	72.5	72.3	72.0	75.0	76.3	78.3	80.6	83.2							110.3
LOC SCHENECTADY	200	70.5	70.6	71.6	72.4	73.6	75.1	76.6	78.4	78.9	81.9	84.3							111.4
DATE 01-16-75	250	73.5	74.5	75.8	76.1	76.8	75.3	76.6	78.8	79.9	81.4	83.8							112.4
RUN 71-9	315	74.5	75.1	75.6	76.1	76.1	74.6	77.3	77.9	76.9	80.9	82.3							111.6
TAPE 25	400	72.9	73.5	73.5	74.3	74.8	73.2	76.7	78.0	78.3	80.1	81.4							110.7
BAR 30.0 HG	500	70.8	71.6	72.4	73.4	74.4	72.4	77.4	78.4	79.2	80.3	80.8							110.6
(01407; N/M2)	630	72.5	72.9	73.1	75.1	76.3	73.8	79.0	80.1	80.4	80.7	80.3							111.7
TAMB 38; DEG F	800	72.0	72.1	72.6	74.6	75.1	71.9	77.8	79.4	79.7	80.8	79.8							110.8
(270; DEG K)	1000	70.5	70.8	71.6	73.1	74.6	70.3	78.8	79.6	80.4	79.9	78.7							110.7
TWET 34; DEG F	1250	69.8	70.1	71.4	72.7	73.9	69.9	77.3	78.9	79.4	79.3	77.8							110.0
(274; DEG K)	1600	69.9	71.5	72.5	74.0	74.2	69.2	76.9	78.3	80.3	80.4	77.4							110.4
HACT 4.83 GM/M3	2000	69.3	70.5	70.8	72.4	73.4	68.3	76.8	78.9	77.2	78.8	76.2							109.1
(.00403 KG/M3)	2500	68.5	69.6	71.8	72.6	73.8	68.8	74.2	75.4	77.7	79.5	74.9							107.8
NFA 6998. RPM	3150	69.3	69.6	70.1	72.2	74.9	70.0	76.2	77.2	80.5	77.6	75.0							109.4
(733; RAD/SEC)	4000	69.8	68.4	69.3	72.8	74.4	69.3	76.2	79.2	82.8	78.2	74.4							110.2
NFK 7144. RPM	5000	67.1	67.7	69.6	72.8	74.1	69.5	79.5	81.2	82.8	78.9	74.7							111.5
(748; RAD/SEC)	6300	67.3	69.5	70.7	73.2	74.9	71.3	80.7	83.4	84.1	81.8	76.1							114.0
NFD 8829. RPM	8000	68.7	70.7	72.3	75.1	77.3	74.0	83.7	87.3	86.8	84.2	77.9							117.8
(924; RAD/SEC)	10000	69.6	71.0	74.3	77.3	79.3	75.4	85.4	88.0	90.0	88.4	77.7							118.2
NO. OF BLADES 15	12500	72.5	75.1	79.2	83.5	86.7	81.5	89.5	91.7	91.9	88.2	80.6							121.8
FAN TIP SPEED	16000	71.9	74.9	79.9	84.1	87.3	82.9	90.5	92.5	92.2	89.8	79.6							122.8
611; FT/SEC	20000	70.3	74.0	78.8	81.7	84.8	80.4	88.8	92.2	94.3	87.9	79.7							123.5
	25000	68.8	70.8	74.1	77.5	81.6	77.5	87.4	90.5	91.3	86.8	79.8							121.7
	31500	67.2	69.7	71.8	76.5	79.6	76.8	85.8	89.1	89.8	84.8	75.6							121.8
	40000	66.9	68.4	70.1	74.5	77.5	74.1	83.9	86.3	86.4	82.8	72.2							119.7
	50000	64.3	65.1	64.6	68.5	70.1	67.5	76.9	78.6	78.8	73.2	65.6							114.2
	63000	61.8	61.8	59.3	58.9	60.8	59.9	66.4	67.2	67.5	64.2	58.1							106.6
	80000	67.2	67.5	65.2	64.1	63.9	65.3	65.8	64.5	63.0	62.8	63.6							111.6
OVERALL MEASURED																			
OVERALL CALCULATED		89.1	86.9	88.6	91.2	93.7	88.7	97.7	100.0	101.0	98.8	94.5							124.3
PNDB		94.7	96.9	96.8	98.6	100.4	96.5	103.7	106.1	107.8	105.4	103.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 29 HR. 20.1

MODEL SOUND PRESSURE LEVELS (59, DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	54. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																		
63																		
80	38.3	41.5	42.4	44.1	44.5	46.0	47.0	48.7	49.2	51.1	51.5							
100	45.0	49.7	49.9	49.8	50.4	49.5	46.0	47.0	50.9	52.8	53.2							
125	49.4	56.0	55.0	55.8	56.7	53.0	52.0	53.9	53.3	54.0	52.0							
160	47.0	49.3	49.3	50.7	50.5	50.1	52.6	53.0	53.7	53.8	52.8							
200	46.5	47.0	49.5	50.4	51.0	53.1	54.1	55.0	54.1	55.0	53.0							
250	49.4	51.5	53.8	54.1	55.0	53.0	56.1	55.4	55.0	54.3	52.9							
315	50.3	51.9	53.1	54.0	54.1	52.5	54.7	54.3	53.9	54.7	51.2							
400	46.6	50.2	50.0	52.1	52.7	51.0	54.0	54.4	53.2	52.7	50.1							
500	46.4	48.2	49.7	51.2	52.3	50.1	54.6	54.7	54.0	52.7	49.3							
630	46.0	49.0	50.3	52.7	54.1	51.4	56.1	56.2	55.0	52.9	48.4							
800	47.5	48.5	49.7	52.1	52.8	49.3	54.8	55.4	54.1	52.8	46.9							
1000	45.6	47.0	48.5	50.5	52.1	47.7	54.8	55.2	54.7	51.7	46.3							
1250	44.8	46.2	48.2	49.9	51.3	47.1	54.0	54.6	53.6	50.9	45.0							
1600	48.7	47.4	49.1	51.1	51.5	46.3	53.4	53.8	54.2	51.7	44.1							
2000	43.8	46.0	47.3	49.3	50.4	45.2	52.3	52.2	52.8	49.8	42.5							
2500	42.8	45.0	47.3	49.4	50.7	44.7	50.3	50.5	51.1	48.2	40.7							
3150	42.3	44.8	46.1	48.6	51.5	48.4	52.1	51.9	53.5	47.8	40.0							
4000	40.5	43.1	44.9	48.0	50.6	45.2	51.6	53.5	54.4	47.6	38.9							
5000	40.2	42.1	44.9	47.8	50.1	45.2	54.6	55.2	54.9	47.9	38.1							
6300	39.5	43.1	45.2	48.2	50.1	46.3	55.8	56.5	57.2	49.5	37.6							
8000	39.6	43.1	45.7	49.1	51.4	47.9	56.9	58.2	58.4	50.8	36.6							
10000	38.5	41.6	44.2	49.8	52.2	47.8	57.8	58.1	57.4	47.5	32.5							
12500	38.6	43.3	48.6	53.7	57.2	51.9	58.7	57.1	56.3	49.4	29.8							
16000	38.4	38.9	45.8	50.7	54.2	49.8	55.9	55.7	51.6	38.5	19.2							
20000	29.6	32.5	38.6	43.5	46.9	42.1	50.2	49.6	47.8	32.1	7.9							
25000	15.5	21.5	27.8	32.4	37.8	32.3	48.2	39.6	34.5	18.9								
31500	1.2	9.1	14.2	21.3	25.8	20.7	28.8	28.6	19.8									
40000				4.4	8.2	3.7	18.1	8.1										
50000																		
63000																		
80000																		
OVERALL CALCULATED	59.3	62.1	63.4	65.1	66.5	63.4	68.4	67.8	66.3	63.2	58.4							
PNDB	66.4	71.0	72.7	74.9	76.8	72.7	79.0	78.7	76.9	74.0	68.3							

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE & MONTH 10 DAY 6 HR. 0:0

MODEL SOUND PRESSURE LEVELS (50. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.72)	0.	0.	0.	0.	0.	0.	0.	PWL
50																			
63																			
80	83.4	85.2	86.2	87.7	80.8	72.2	72.2	74.2	76.7	83.8	85.4								118.8
100	87.4	91.8	91.5	91.8	72.5	75.5	73.8	74.2	77.8	82.1	87.8								111.7
125	94.8	97.8	76.8	78.3	76.4	78.3	78.3	80.3	80.8	83.7	86.8								113.9
160	73.7	94.5	74.0	75.8	75.3	76.8	77.8	79.5	81.3	83.7	87.8								113.6
200	72.7	72.8	73.1	74.8	76.4	78.9	78.3	81.1	82.6	84.9	87.8								114.7
250	78.8	78.5	80.1	80.6	81.6	84.8	83.1	84.8	85.4	86.2	88.8								117.4
315	77.2	77.8	77.8	78.9	79.4	78.9	80.1	81.1	82.4	83.8	86.8								114.9
400	76.2	76.7	76.3	77.3	78.8	77.7	78.5	80.8	82.8	83.8	85.7								114.1
500	74.1	74.8	74.9	75.9	77.2	77.2	80.1	81.4	82.4	83.3	84.8								113.8
630	75.8	74.8	75.8	77.3	78.8	78.3	81.5	82.9	83.4	83.7	84.8								114.2
800	74.8	75.1	75.4	76.9	78.1	78.1	80.8	81.9	82.7	83.5	83.8								113.8
1000	73.2	73.8	74.8	76.3	77.8	78.1	79.6	80.5	81.1	82.9	83.4								113.2
1250	73.8	72.8	73.9	75.7	77.1	76.6	80.1	81.2	82.2	81.3	81.8								112.8
1600	72.6	72.7	73.7	75.3	76.5	75.7	78.4	80.3	81.6	80.9	80.1								111.9
2000	73.8	73.8	75.1	76.2	77.6	73.3	79.5	81.7	84.2	81.1	80.2								113.2
2500	71.8	72.3	72.8	75.4	76.1	72.7	77.7	78.9	81.4	79.3	77.1								111.1
3150	71.1	71.9	72.6	74.9	76.6	73.5	78.8	79.2	8.5	79.1	77.7								111.4
4000	70.1	71.6	72.8	75.9	77.7	74.8	79.5	82.2	85.8	83.2	80.2								113.8
5000	69.8	70.4	72.1	74.5	77.4	73.5	80.9	82.7	85.1	82.5	77.4								112.9
6300	70.8	71.8	73.2	75.7	78.1	73.8	83.7	86.1	88.8	85.3	77.2								114.6
8000	71.7	73.6	74.8	77.6	79.8	77.8	86.7	89.8	9.7	86.8	79.4								116.8
10000	71.8	73.7	75.6	78.1	81.8	78.4	87.4	91.3	93.2	86.9	80.2								120.1
12500	73.3	73.7	78.7	82.8	85.8	84.8	98.9	93.2	93.4	86.9	80.8								122.8
16000	73.6	77.2	80.4	84.8	87.8	88.3	92.8	94.2	93.8	87.8	81.4								124.1
20000	74.3	78.2	82.8	85.5	88.3	89.7	93.8	95.4	94.3	88.1	82.7								126.4
25000	72.3	75.8	78.8	82.8	85.8	88.3	92.1	93.8	95.3	89.8	82.2								125.9
31500	70.8	73.2	76.6	80.5	83.1	84.9	87.8	9.1	93.8	87.8	80.6								124.8
40000	68.9	71.4	73.6	77.5	80.8	78.6	87.6	89.5	90.8	84.3	77.8								122.1
50000	64.8	66.3	67.1	70.8	73.3	71.8	80.6	82.4	81.8	76.6	67.8								117.3
63000	60.8	61.8	59.9	60.9	63.4	62.7	70.4	7.2	71.8	64.7	60.4								107.9
80000	57.2	57.9	55.8	54.1	54.1	54.8	65.8	64.5	63.2	62.8	53.8								112.1
OVERALL MEASURED																			
OVERALL CALCULATED	87.8	88.1	9.7	93.2	95.5	93.6	102.8	103.8	10.8	98.2	98.8								126.1
PWL	87.8	88.8	89.2	101.8	102.2	100.8	110.8	108.8	110.8	102.8	98.2								

BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 10 DAY 6 YR' 0'0

MODEL SOUND PRESSURE LEVELS (SP' DEG F' 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.72)	0.	0.	0.	0.	0.	0.
20																	
25																	
31	39.8	42.5	44.2	46.1	46.5	58.5	58.3	51.2	52.4	54.4	55.5						
40																	
50	43.7	48.2	49.4	50.1	50.9	51.8	51.5	51.2	53.4	55.6	56.9						
63																	
80	50.2	54.2	54.6	54.3	54.9	56.5	56.6	57.2	56.3	56.7	56.5						
100	48.8	51.8	51.8	53.2	53.3	54.9	55.4	56.3	56.7	57.6	56.5						
125																	
160	48.8	49.8	50.8	52.7	54.4	57.9	56.9	57.0	57.0	58.4	57.1						
200	53.7	55.3	57.7	58.6	59.7	59.8	60.6	61.2	60.5	59.8	57.2						
250																	
315	53.1	54.6	55.4	56.8	57.4	57.7	57.5	57.6	57.4	54.7	54.9						
400	51.9	53.4	53.7	55.3	56.8	59.5	58.8	57.1	56.9	56.2	54.4						
500	50.7	51.2	52.2	53.7	55.8	54.8	57.3	57.7	57.2	55.7	53.8						
630	50.3	51.3	53.0	55.8	57.3	59.9	58.4	59.8	58.8	55.9	52.2						
800	50.1	51.5	53.5	54.4	55.8	58.6	57.8	57.9	57.1	54.8	50.9						
1000	50.4	50.8	51.5	53.7	55.3	58.9	57.3	56.8	57.2	54.2	49.8						
1250	50.8	48.9	50.7	52.9	54.5	57.8	58.8	56.9	56.3	53.1	49.1						
1600	47.2	48.6	50.4	52.4	53.7	48.8	54.9	58.8	55.5	52.2	46.7						
2000	47.4	49.5	51.5	53.1	54.7	58.2	55.3	54.9	57.6	52.8	48.5						
2500	46.1	47.8	49.1	52.1	52.9	47.3	53.8	54.8	54.8	49.9	43.7						
3150	45.8	47.8	48.6	51.4	53.2	48.9	54.3	53.9	55.3	49.3	42.8						
4000	43.5	44.3	48.4	51.8	54.1	58.6	54.8	56.5	58.2	52.1	42.2						
5000	42.9	44.8	47.4	50.3	53.3	48.2	55.6	56.7	57.1	49.4	41.8						
6300	42.5	45.1	47.7	50.7	53.3	58.8	58.8	59.3	60.8	56.2	38.9						
8000	42.1	45.8	48.2	51.6	53.9	51.7	58.9	61.7	61.6	51.8	38.1						
10000	42.3	44.4	47.4	50.5	53.7	58.8	58.2	60.3	58.2	48.6	34.3						
12500	39.4	44.8	48.1	52.2	53.5	51.8	58.7	60.6	57.8	44.1	29.9						
16000	34.9	41.2	46.1	51.2	53.9	48.8	57.4	57.4	53.8	41.6	28.2						
20000	31.6	36.8	42.8	47.2	50.4	47.3	54.8	52.8	48.8	33.6	18.8						
25000	29.8	32.8	38.8	36.7	41.8	38.8	49.8	44.2	38.8	21.7							
31500	3.9	12.8	19.3	29.3	28.3	26.2	38.6	38.6	22.7	11.4							
40000				8.9	7.4	11.4	8.2	13.8	8.4								
50000																	
63000																	
80000																	
OVERALL SPL	62.1	64.8	68.6	67.2	68.8	67.9	75.8	73.7	74.2	68.8	64.2						
PWL	73.8	73.9	79.1	77.6	79.6	77.8	85.6	82.6	83.8	77.3	73.9						

BASE : FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 04 DAY 0 YR 010

MODEL SOUND PRESSURE LEVELS (DB) REF TO 70 PERCENT REL. HUM. DATA

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.68)	0.	0.	0.	0.	0.	0.	0.	0.	PWL
20																				
25																				
BAD AL 17. F7. 8	84.1	85.7	86.7	87.7	88.5	71.2	73.2	74.2	76.5	81.8	85.2									110.8
8. H) 100	87.2	71.8	72.8	72.8	72.3	74.3	73.8	74.3	76.1	83.1	86.7									111.8
VEHICLE R999 125	73.7	77.3	77.1	76.3	76.0	77.6	78.3	79.8	80.6	83.8	86.8									113.6
DENSITY 2982 150	73.9	74.2	74.5	73.8	74.0	76.8	77.8	79.3	81.5	83.1	86.2									113.3
LOC SCHEMECTADY 200	72.2	72.8	73.8	74.6	76.4	78.9	79.6	80.9	82.4	85.4	87.3									115.2
DATE 22-JUL-72 250	75.5	76.5	80.6	81.1	81.3	81.8	83.6	84.4	85.4	87.7	87.8									117.6
OLD 71-0 315	77.8	77.8	78.3	78.8	78.4	78.6	81.3	81.1	82.4	84.4	85.8									114.8
TAPE 800032 400	75.7	76.2	76.8	77.8	78.8	77.2	81.2	81.8	84.5	84.4	85.4									116.2
BAR 30.0 MB 500	74.1	74.8	75.2	76.4	77.2	73.2	80.4	81.4	82.2	83.8	84.8									113.8
681407. M/S2) 630	75.8	74.8	76.3	77.8	79.1	77.1	82.5	82.4	83.4	83.8	83.5									114.6
TAMB 80. DEG F 800	74.8	75.1	75.4	76.9	77.8	75.4	81.8	81.7	83.2	83.2	82.2									113.8
(270. DEG K) 1000	73.8	73.3	75.1	76.3	77.3	74.3	82.8	81.9	82.7	82.7	81.7									113.4
TWET 33. DEG F 1250	72.4	72.8	74.4	75.9	76.9	73.4	81.8	81.4	82.5	82.3	81.9									113.3
(274. DEG K) 1600	72.2	73.2	73.7	75.8	76.8	72.3	78.7	80.1	81.1	81.2	79.9									111.8
WACT 3.93 GM/M3 2000	73.4	73.8	75.1	76.4	77.4	74.1	79.5	81.7	84.2	81.8	80.8									113.3
(.00393. KG/M3) 2500	71.8	72.1	73.1	74.9	76.1	72.8	77.7	79.1	81.4	79.6	78.4									111.2
WP 7721. RPM 3150	71.1	71.7	73.1	74.7	76.6	72.8	78.3	78.7	82.3	79.9	78.8									111.5
(810. RAD/SEC) 4000	69.8	71.2	73.1	75.3	77.6	73.3	79.8	82.2	85.3	81.2	77.3									113.6
WPR 7935. RPM 5000	69.8	70.4	72.4	74.3	76.9	72.8	80.8	82.7	84.9	81.8	77.8									113.2
(831. RAD/SEC) 6300	69.2	72.8	73.2	74.7	77.4	73.8	84.6	86.4	87.2	83.2	77.6									116.8
WP3 8423. RPM 8000	72.2	72.8	73.1	77.3	79.8	77.3	86.8	87.1	0.1	84.2	78.7									120.0
(882. RAD/SEC)10000	71.2	73.8	76.4	78.6	81.3	78.8	87.2	87.1	0.1	85.8	79.1									120.2
DO: OF BLADE, 1? 12500	73.1	75.8	78.8	81.8	84.8	81.1	85.8	83.2	83.2	88.8	81.1									122.8
FAN TIP SPEED 16000	73.8	76.7	81.4	84.8	86.8	83.1	82.3	74.1	83.3	87.3	81.6									120.1
870. FT/SEC 20000	74.2	77.9	82.3	85.4	88.8	85.4	83.7	75.9	85.8	84.1	83.8									120.4
25000	72.8	74.9	79.8	84.2	88.6	82.4	79.3	74.7	85.8	86.2	82.7									120.8
31500	70.3	73.3	76.7	79.8	83.6	84.6	81.2	81.7	83.1	87.3	78.7									124.8
40000	68.8	71.1	73.8	77.2	79.7	77.8	87.4	90.5	89.7	84.7	76.9									123.8
50000	68.8	68.1	69.7	72.1	73.4	78.8	88.3	82.1	81.9	78.4	69.8									117.4
63000	68.2	68.3	67.1	68.3	68.4	81.4	78.1	73.8	73.8	67.3	68.3									108.8
80000	64.9	64.8	64.8	63.9	63.2	68.4	64.6	63.9	62.7	60.8	63.1									111.6
OVERALL SPL																				
CALCULATED	87.7	89.8	91.1	93.2	95.3	92.8	102.7	102.9	103.6	98.7	97.8									120.8
MEAS	87.3	89.8	91.8	101.3	101.2	92.8	104.7	104.9	110.9	100.2	100.8									

BASE 3 -- FULL SCALE DATA REDUCTION PROGRAM — PROC: DATE = MONTH 00 DAY 0 HR. 0:0

MODEL SOUND PRESSURE LEVELS (30: DEG: F: 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ:	31. (0.72)	41. (1.00)	51. (1.24)	61. (1.48)	71. (1.72)	81. (1.96)	91. (2.20)	101. (2.44)	111. (2.69)	121. (2.93)	131. (3.17)	141. (3.41)	151. (3.65)	0.	0.	0.	0.	0.	0.	0.
20																				
63																				
BROADLINE 2000 CPS	80	89.5	43.8	44.7	46.1	47.8	49.3	50.8	51.2	52.3	53.1	53.3								
(68.70 DB)	100	93.5	48.2	49.9	50.3	50.9	52.8	91.3	51.2	53.0	54.6	54.7								
VEHICLE NOISE	125	89.9	54.3	54.9	54.9	55.2	55.0	54.8	54.7	54.1	54.5	54.5								
CORNER 7300	160	90.0	51.3	52.3	53.2	53.8	54.1	53.4	54.0	54.0	57.0	55.8								
ACC SCHEDULE	200	88.5	49.8	51.5	52.7	54.0	54.9	57.1	57.5	57.4	58.5	56.4								
DATE 11-30-75	250	84.4	55.5	58.2	59.1	59.5	59.8	61.1	61.2	60.8	61.6	60.8								
DLG 73-6	315	82.8	54.6	55.9	56.3	56.4	56.5	57.7	57.6	57.4	57.2	54.7								
TAPE 300032	400	81.8	52.9	54.2	55.6	56.0	56.2	57.3	57.1	56.4	56.1	53.1								
BAR 30.0 IN	500	80.7	52.0	52.8	54.2	55.1	55.0	57.0	57.7	57.0	56.2	53.8								
(011487, M(N2)	630	86.5	91.3	93.2	95.3	96.8	96.7	99.1	98.8	98.8	96.2	93.7								
TAMB 90. DEG F	800	80.1	88.2	52.5	54.9	55.2	54.8	57.8	57.7	57.6	57.3	53.4								
(276. DEG K)	1000	88.1	87.8	52.8	53.7	54.8	54.7	57.6	57.7	57.2	56.9	53.3								
TAIR 33. DEG F	1250	87.8	48.9	51.2	53.2	54.3	56.6	57.3	57.1	56.6	55.9	48.7								
(274. DEG K)	1600	87.8	89.1	50.4	52.1	53.2	55.5	55.2	55.8	55.8	55.8	46.6								
BARO 3.33 CM/M3	2000	88.1	89.8	51.6	53.3	54.6	57.2	57.8	57.8	57.8	57.8	48.2								
(.00293, KG/M3)	2500	86.1	87.8	48.3	51.6	53.8	56.4	58.8	58.2	58.8	58.2	54.2								
DPA 7771. DPH	3150	85.1	87.1	48.1	51.2	53.2	57.2	59.1	59.4	59.2	59.8	53.1								
(814. PA(SEA)	4000	83.2	85.0	48.1	51.8	53.8	57.8	59.3	58.3	58.1	59.1	51.2								
DPZ 9032. DPH	5000	82.8	84.9	47.7	50.1	52.8	56.2	58.9	58.7	58.8	58.6	48.3								
(831. PA/SEC)	6300	82.1	83.6	47.8	50.8	52.6	56.3	58.3	57.6	58.2	57.8	47.8								
DPD 8831. DPH	8000	82.1	83.1	48.3	51.4	53.1	57.3	59.0	58.8	58.7	58.1	47.7								
(924. PA0/SEC)	10000	80.1	82.7	48.2	51.1	54.0	58.4	59.2	58.8	58.8	58.1	48.1								
OV: OF OVERALL 10	12500	80.2	83.1	48.2	52.1	55.3	59.3	60.2	59.7	59.4	57.8	48.2								
OVERALL 16000	16000	87.4	90.7	47.1	51.4	55.7	60.5	61.2	60.2	59.2	58.8	48.2								
870. PA/SEC	20000	80.6	84.9	46.9	47.2	56.1	47.1	93.9	93.4	48.8	34.4	48.2								
	25000	80.6	89.2	38.8	38.1	48.9	37.2	65.2	44.8	28.2	22.4									
	31500	4.9	82.7	17.9	24.8	29.1	25.2	32.4	36.2	22.3	1.7									
	40000			8.8	7.1	10.4	7.2	13.8	9.3											
	50000																			
	63000																			
	80000																			
OVERALL SOUND PRESSURE	100000	92.6	96.0	88.8	87.3	88.3	87.2	94.3	94.2	94.4	88.8	84.8								
	125000	93.6	93.6	93.8	97.6	98.3	96.2	91.9	92.6	83.8	78.8	83.6								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE & MONTH 64-8 HR: 0'6

MODEL SOUND PRESSURE LEVELS (50' DEG' F' 70 PERCENT REL' HUM' DRY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ:	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
20																		
25																		
BAD IAL 17, FT. 80	87.9	89.2	72.0	74.0	75.0	79.9	71.7	67.2	67.2	72.1	73.7							106.8
S. MI 100	72.7	74.0	76.8	78.8	79.5	80.0	76.8	69.8	69.8	74.1	75.3							110.7
VEHICLE R459 125	66.2	66.8	69.8	68.3	70.1	70.1	67.3	70.1	71.1	72.4	74.0							104.8
SCRFIG 7982 150	63.2	64.8	64.5	65.0	65.3	69.0	67.5	68.8	70.5	72.7	74.0							102.7
LOG SCHENECTADY 200	62.7	63.6	64.1	65.1	66.9	70.6	69.3	70.6	71.9	74.9	75.5							104.2
DATE 31=30-75 250	66.8	66.6	66.6	66.6	69.1	71.1	71.1	71.3	72.4	73.9	74.5							104.6
RUN 7=7 315	66.5	67.6	66.3	66.1	69.1	71.1	70.3	70.6	71.4	72.7	73.3							104.2
TAPE E00038 400	65.1	66.2	66.5	67.5	67.8	70.5	70.0	70.5	71.6	73.1	73.2							103.8
BAR 30.0 IN 500	63.8	65.4	65.9	66.4	67.9	69.4	70.8	71.4	72.7	73.8	73.8							104.0
.001407, N(M2) 630	65.5	66.3	67.3	68.6	70.1	70.3	73.5	73.9	74.4	75.2	75.0							105.8
TAMB 30; DEG F 800	64.8	65.6	66.1	67.4	68.1	68.6	71.8	72.7	73.4	74.2	74.2							104.2
(276; DEG K) 1000	62.2	63.3	65.1	66.3	67.8	67.8	72.3	72.9	74.6	75.7	76.5							104.8
THET 33; DEG F 1250	62.8	64.3	65.4	67.2	67.6	66.6	73.3	74.2	76.7	78.0	78.3							107.0
(274; DEG K) 1600	61.2	62.2	63.0	64.3	65.5	64.2	69.2	71.1	73.1	73.2	80.1							102.3
RHOT 3.93 GM/M3 2000	60.8	61.8	62.4	64.2	64.9	62.6	66.8	69.2	68.7	70.3	67.5							100.1
(.00353,KG/M3) 2500	60.2	62.6	63.8	65.4	66.8	64.8	69.2	69.1	70.2	71.3	70.7							101.5
RPS 9436. RPM 3150	59.8	61.1	62.1	63.7	65.9	63.5	69.5	69.0	7.3	7.0	66.2							.0.6
(987; RAD/SEC) 4000	59.6	61.2	62.7	64.0	66.6	64.8	69.8	72.0	75.5	78.2	80.0							108.7
RPM 9558. RPM 5000	59.9	60.9	62.1	63.5	66.4	63.5	72.5	74.7	79.3	76.6	64.5							105.1
(981; RAD/SEC) 6300	60.9	63.8	64.5	65.5	68.1	65.8	74.2	77.2	80.2	78.8	70.9							108.3
RPS 8823. RPM 8000	62.5	64.5	66.6	68.5	71.3	69.1	77.8	80.6	81.8	81.8	73.4							111.8
(924; RAD/SEC) 10000	70.8	72.3	74.2	76.1	83.3	86.0	87.4	88.3	90.8	88.2	82.5							117.6
NO. OF BLADES: 3 12500	77.4	85.2	79.5	85.1	89.3	89.8	90.4	90.2	90.2	87.8	80.6							122.9
RAW TIP SPEED 16000	85.2	87.7	78.4	74.8	78.3	78.8	84.3	84.1	86.5	82.3	74.3							118.5
475; FT/SEC 20000	83.8	85.7	88.0	71.2	74.5	78.2	81.7	84.2	87.3	82.9	73.2							116.8
25000	88.5	82.4	84.0	68.7	71.3	87.4	78.3	81.2	83.2	86.5	71.5							113.2
31500	90.8	81.3	82.7	67.0	70.1	88.4	77.7	78.9	81.6	78.1	88.5							112.7
40000	90.8	80.1	89.8	64.8	67.8	89.6	75.1	77.0	78.9	76.0	84.4							111.4
50000	95.9	94.9	95.9	97.4	99.9	98.9	68.8	69.0	70.2	68.6	97.7							105.4
63000	91.2	92.5	90.6	90.1	91.6	91.4	98.4	98.8	60.5	97.5	90.4							99.6
80000	94.9	94.8	94.6	93.9	93.2	93.4	94.6	93.9	93.9	92.8	93.1							101.5
OVERALL MEASURED																		
OVERALL CALCULATED	88.2	89.1	84.6	88.1	91.6	88.0	94.8	95.6	96.6	93.9	88.7							108.7
PNDB	88.2	89.9	92.2	94.1	96.8	99.8	108.5	101.5	103.1	102.8	98.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 04 DAY 0 RE: 0.0

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	93. (0.72)	82. (1.00)	71. (1.24)	61. (1.41)	51. (1.58)	141. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.72)	0.	0.	0.	0.	0.	0.
20																	
63																	
80	44.3	46.5	49.9	52.3	53.5	53.0	49.6	44.2	42.9	49.6	43.8						
100	49.8	51.2	54.7	57.1	57.9	58.3	53.8	48.7	45.4	47.6	45.4						
125	42.4	44.8	47.6	46.5	48.4	48.3	45.6	46.9	46.6	45.7	43.6						
160	38.3	41.6	42.3	43.2	43.9	47.1	45.1	45.5	45.9	46.6	43.5						
200	38.8	40.6	41.8	43.2	45.1	48.6	46.9	47.3	47.1	48.6	44.9						
250	41.7	43.7	46.2	46.6	47.2	49.8	48.4	47.9	47.8	48.8	43.7						
315	42.3	44.4	45.9	46.0	46.1	49.0	47.7	47.1	46.4	45.4	42.2						
400	41.1	42.9	43.9	45.3	45.7	48.3	47.3	46.9	45.9	45.7	41.6						
500	39.4	42.1	43.2	44.2	45.5	47.1	48.1	47.7	47.5	45.7	41.0						
630	41.0	42.8	44.5	46.2	47.8	47.9	50.6	50.3	49.0	47.4	41.2						
800	40.1	42.0	43.2	44.7	45.8	46.1	48.8	48.7	47.9	46.3	39.1						
1000	37.4	39.5	42.0	43.7	45.3	45.2	49.1	48.7	48.9	47.5	38.0						
1250	37.8	40.4	42.2	44.4	45.0	43.8	50.0	51.9	50.8	48.4	40.2						
1600	36.8	38.1	39.6	41.4	42.7	41.3	45.7	46.4	45.6	44.5	35.9						
2000	34.9	37.3	38.8	41.1	41.9	38.4	43.1	42.5	42.3	41.5	33.7						
2500	34.9	36.1	40.1	42.1	43.7	40.7	45.3	44.2	43.6	41.9	32.5						
3150	33.8	36.3	38.1	40.2	42.5	39.9	45.3	43.7	44.3	42.6	31.3						
4000	33.1	36.4	38.4	40.8	42.8	40.8	45.1	45.2	46.8	46.5	33.0						
5000	33.8	35.4	37.4	39.3	42.4	39.3	47.6	48.7	47.4	44.9	31.8						
6300	33.1	36.6	39.0	40.5	43.4	40.8	48.8	50.3	51.2	46.3	32.4						
8000	33.4	36.9	40.8	42.4	45.5	43.8	51.8	52.5	51.4	46.8	32.1						
10000	36.9	42.9	46.8	51.8	50.8	52.6	59.8	58.4	57.3	51.8	37.3						
12500	38.9	43.4	49.8	55.3	57.8	53.8	59.8	57.7	54.6	46.2	29.7						
16000	36.6	41.9	46.1	41.2	45.2	44.2	49.6	49.4	45.8	32.8	14.8						
20000	38.4	24.2	28.6	33.8	36.6	35.8	41.9	41.6	40.8	27.1	0.5						
25000	7.1	13.2	17.5	21.6	26.7	24.2	31.2	30.3	26.6	12.8							
31500		0.7	5.5	11.9	15.6	13.8	19.9	17.4	10.8								
40000							1.3										
50000																	
63000																	
80000																	
OVERALL SPL	54.2	56.6	59.5	62.1	64.6	63.1	65.2	64.4	63.2	61.8	54.2						
PWL	80.9	83.0	86.1	89.0	91.6	89.8	94.4	94.1	93.6	91.1	80.7						

BASELINE 2D3 FT7
(60.76 MI
VEHICLE R055
SCRFIG 7502
LCB SCHENECTADY
DATE 01030-75
RUN 71-7
TAPE 806032
BAR 30.0 HG
801407. N/M2)
TAMB 30. DEG F
(276. DEG K)
TWET 33. DEG F
(274. DEG K)
WAET 3.53 GM/M3
(.00233. KG/M3)
RPM 5460. RPM
(961. RAD/SEC)
RPM 9550. RPM
(981. RAD/SEC)
RPM 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
475. FT/SEC

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 2 DAY 25 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 19. FT.	80	68.1	71.7	74.2	75.5	75.0	74.7	71.0	67.2	67.7	71.3	74.4							10 .8
(5. M)	100	74.4	76.7	80.8	82.5	82.3	80.5	77.5	71.0	70.0	74.4	76.5							11 .1
VEHICLE 4455	125	67.0	68.3	71.6	69.1	71.3	72.3	67.3	70.1	71.3	72.4	75.5							10 .7
CONFIG 7383	160	63.9	65.5	65.5	66.0	66.5	72.8	67.5	69.0	71.0	72.4	74.2							10 .2
LOC SCHENECTADY	200	63.2	63.8	64.6	65.6	66.9	70.4	69.8	71.6	72.6	74.4	76.3							10 .8
DATE 01-29-75	250	66.5	67.6	69.1	68.6	69.1	73.9	71.3	72.1	72.6	73.4	74.5							10 .9
RUN RUN 62, PT=1	315	67.0	68.3	68.8	68.4	69.1	73.6	70.1	70.6	71.6	72.2	73.8							10 .4
TAPE 34	400	65.4	66.7	67.3	67.8	68.9	73.8	70.5	70.8	71.8	72.1	73.2							10 .2
BAR 29.7 MB	500	64.1	65.6	65.9	66.7	66.2	72.7	71.1	71.9	72.9	73.3	73.8							10 .0
(.0157. M/(2)	630	65.7	66.8	68.6	69.6	71.3	73.6	74.3	74.6	74.9	74.9	73.3							10 .6
TAMB 48. DEG F	800	65.3	67.3	67.6	69.4	72.4	73.9	72.6	73.9	74.7	74.5	71.8							10 .8
(282. DEG K)	1000	63.7	65.8	66.6	67.3	69.1	69.3	73.0	74.9	76.4	76.4	71.5							10 .3
THET 43. DEG F	1250	65.5	66.8	67.4	69.7	73.6	69.1	79.3	78.7	79.7	80.8	75.0							10 .5
(279. DEG K)	1600	62.4	63.7	65.0	66.3	68.0	69.5	71.9	73.5	75.1	76.4	70.6							10 .3
MACT 5.83 GM/M3	2000	60.3	62.1	63.1	63.6	65.6	68.5	67.8	68.4	68.4	67.3	66.2							9 .5
(.00583 KG/M3)	2500	61.0	62.8	63.8	65.1	67.5	69.5	68.4	68.9	68.7	68.5	65.9							10 .2
NFA 2487. RPM	3150	61.3	62.3	63.5	64.4	66.8	69.5	69.9	69.4	72.5	72.6	67.4							10 .5
(260. RAD/SEC)	4000	62.3	64.6	65.5	67.7	69.8	69.7	74.4	76.1	81.0	81.1	72.9							10 .3
NFM 5546. RPM	5000	63.8	65.3	67.0	68.7	71.8	69.9	77.9	79.9	82.8	81.1	73.1							11 .0
(581. RAD/SEC)	6300	65.5	67.4	69.3	71.6	74.3	73.4	80.6	82.8	85.8	82.2	75.8							11 .4
NFD 8823. RPM	8000	65.2	66.9	69.5	72.4	75.7	77.8	81.2	83.6	85.1	82.3	74.4							11 .9
(924. RAD/SEC)	10000	65.3	68.7	72.6	76.9	79.5	79.1	81.9	82.5	84.4	82.4	73.0							11 .1
NO. OF BLADES 15	12500	75.3	78.7	85.0	91.8	92.8	90.1	92.4	91.0	88.5	84.5	77.9							12 .6
FAN TIP SPEED	14000	65.9	69.2	73.0	78.1	81.1	79.1	84.9	86.1	86.1	81.1	73.2							11 .6
479. FT/SEC	20000	63.6	65.3	67.8	69.8	73.4	69.8	78.9	83.3	85.9	81.0	71.8							11 .7
	25000	64.8	65.3	65.2	69.3	72.7	69.5	77.9	80.8	83.3	80.1	70.8							11 .2
	31500	64.1	63.8	64.2	66.8	69.4	69.1	75.9	79.4	80.8	77.3	67.9							11 .0
	40000	65.2	64.5	63.7	65.3	67.5	69.1	74.1	76.9	78.6	75.4	65.3							11 .1
	50000	67.2	66.9	65.4	64.3	65.4	69.9	71.8	74.7	73.6	71.3	64.1							10 .9
	63000	73.9	74.6	72.2	70.8	71.0	70.2	73.9	73.8	73.5	72.6	69.3							11 .5
	80000	81.8	86.3	79.0	78.0	78.0	76.6	79.7	77.1	76.9	76.8	75.8							12 .7
OVERALL MEASURED																			
OVERALL CALCULATED		85.1	88.4	88.6	93.2	94.1	93.8	95.8	95.2	95.5	92.9	88.2							18 .8
	PNDB	89.4	91.2	93.8	94.8	96.8	98.8	101.1	102.6	104.5	103.5	98.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 2 DAY 25 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80	44.5	49.0	52.2	53.8	53.5	52.1	48.8	44.2	43.4	44.9	44.5						
(60.96 M) 100	50.7	54.0	58.7	60.8	6 .4	58.9	55.3	48.0	45.6	47.8	46.4						
VEHICLE i=55 125	43.2	45.5	49.4	46.3	47.7	53.5	45.0	46.9	46.8	45.7	45.3						
CONFIG 75=3 160	40.0	42.6	43.3	44.2	44.8	52.9	45.1	45.8	46.4	45.5	43.8						
LOC SCHENECTADY 200	39.3	41.8	42.3	43.7	43.1	51.4	47.4	48.3	47.9	47.5	45.6						
DATE 01-29-75 250	42.4	44.5	46.7	46.6	47.2	51.8	48.8	48.7	47.8	46.3	43.7						
RUN RUN 68. PT=1 315	42.8	45.1	46.4	46.3	47.1	51.5	47.5	47.1	46.7	44.9	42.7						
TAPE 31 400	41.1	43.4	44.7	45.8	46.7	51.5	47.8	47.1	46.7	44.7	41.9						
BAR 29.7 HG 500	39.7	42.2	43.2	44.7	46.0	51.4	49.3	48.2	47.7	45.7	41.8						
(00197. G/M3) 630	41.2	43.3	45.8	47.2	49.1	51.2	51.4	50.8	49.5	47.2	41.4						
TAMB 48. DEG F 800	41.6	43.7	44.7	46.9	44.2	44.3	49.5	48.9	49.1	46.5	39.6						
(282. DEG K) 1000	38.9	42.0	43.5	44.7	46.6	44.6	49.8	50.7	50.7	49.2	39.0						
TWET 43. DEG F 1250	43.5	42.9	44.2	46.9	49.0	44.3	52.0	54.4	53.8	52.4	42.2						
(279. DEG K) 1600	37.2	39.6	41.8	43.4	45.2	44.5	48.4	49.0	49.0	47.7	37.4						
MACT 5.83 M/S 2000	34.8	37.8	39.5	41.5	42.6	44.4	43.8	41.7	40.1	38.2	32.5						
(.00583 KG/M3) 2500	35.3	38.3	40.0	41.8	44.4	44.1	44.5	41.9	40.0	37.2	31.7						
NFA 5487. RPM 3150	34.2	37.5	39.5	41.8	43.4	44.9	45.8	44.1	42.5	42.7	32.5						
(574. RAD/SEC) 4000	35.7	39.3	41.1	43.7	46.0	46.7	49.8	50.4	50.4	50.5	38.9						
NFK 5546. RPM 5003	36.9	39.8	42.3	44.5	47.8	46.7	53.5	53.9	54.1	53.1	36.5						
(581. RAD/SEC) 6300	37.7	41.0	43.9	45.6	49.5	48.5	55.0	55.9	56.1	49.9	36.6						
NFD 8823. RPM 8000	36.1	39.3	42.9	46.4	49.9	49.4	54.4	55.4	54.6	47.8	33.1						
(924. RAD/SEC) 10000	34.2	39.3	44.4	50.5	52.1	48.5	53.4	52.5	51.9	43.5	27.8						
NO. OF BLADES 15 12500	41.4	46.9	54.5	62.1	61.3	51.3	61.6	58.4	52.9	42.7	27.0						
FAN TIP SPEED 16000	27.4	33.2	38.6	42.7	48.0	49.8	58.2	49.8	48.4	35.8	12.8						
470. FT/SEC 20000	19.0	23.8	28.2	31.6	35.5	38.4	46.1	46.7	38.6	29.2							
25000	11.3	16.1	18.6	24.2	28.0	28.1	38.8	39.1	26.5	12.2							
31500		3.2	7.1	11.4	15.1	16.7	18.1	16.9	10.1								
40000							0.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.3	58.4	62.3	65.8	66.7	65.1	66.1	65.2	64.2	60.8	55.0						
PNDB	62.4	65.6	68.1	70.1	72.7	71.8	76.1	76.4	76.4	73.0	62.5						

FULL SCALE DATA REDUCTION PROGRA

PROC. DATE = MONTH 2 DAY 25 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	62.4	63.9	65.5	65.7	65.5	7[illegible].2	48.[illegible]	68.5	71.5	74.6	77.9							1[illegible].3
100	73.4	76.0	73.3	71.9	69.5	7[illegible].3	7[illegible].8	69.5	72.8	76.1	79.5							1[illegible].9
125	69.0	71.3	73.1	71.1	73.3	7[illegible].9	73.8	72.6	74.8	76.7	79.8							1[illegible].4
160	68.4	69.5	69.3	69.8	7[illegible].3	7[illegible].6	71.5	72.9	75.5	77.1	79.2							1[illegible].8
200	67.7	68.1	68.8	69.6	71.1	7[illegible].1	73.8	74.9	77.1	79.2	8[illegible].8							1[illegible].2
250	70.5	71.3	72.3	73.3	71.8	7[illegible].1	79.1	74.6	76.9	77.9	79.3							1[illegible].4
315	71.5	72.6	72.6	73.1	73.4	7[illegible].4	74.3	74.1	75.6	77.2	78.5							1[illegible].1
400	69.4	7[illegible].2	71.0	72.0	72.5	7[illegible].8	73.5	74.0	76.3	77.1	77.9							1[illegible].5
500	58.1	69.1	69.9	7[illegible].9	71.9	7[illegible].0	74.6	74.9	76.9	77.3	77.6							1[illegible].3
630	70.0	7[illegible].5	71.8	73.3	74.4	7[illegible].8	77.8	77.1	78.6	79.4	77.3							1[illegible].9
800	70.3	7[illegible].8	71.4	72.9	73.6	7[illegible].4	76.1	76.2	77.9	77.5	75.8							1[illegible].9
1000	68.7	7[illegible].5	71.1	71.8	73.1	7[illegible].8	76.3	76.9	79.4	78.7	75.7							1[illegible].3
1250	68.[illegible]	69.3	69.6	7[illegible].2	7[illegible].4	7[illegible].4	75.8	76.2	78.7	79.[illegible]	75.0							1[illegible].8
1600	67.9	68.7	7[illegible].2	74.3	74.5	7[illegible].4	76.4	77.5	8[illegible].3	8[illegible].2	75.4							1[illegible].2
2000	65.5	66.6	67.1	71.6	69.6	7[illegible].3	7[illegible].8	7[illegible].1	72.2	72.3	71.7							1[illegible].2
2500	66.5	67.3	68.[illegible]	72.8	71.3	7[illegible].5	71.4	69.9	71.1	73.8	70.7							1[illegible].4
3150	66.5	67.1	67.8	72.6	71.8	8[illegible].3	74.9	72.6	78.2	75.6	71.9							1[illegible].3
4000	66.3	67.3	68.3	7[illegible].4	72.8	8[illegible].7	76.4	75.9	81.2	78.8	73.9							1[illegible].4
5000	68.5	69.[illegible]	7[illegible].3	74.[illegible]	75.8	8[illegible].[illegible]	8[illegible].[illegible]	8[illegible].9	86.7	8[illegible].9	76.4							14.4
6300	69.9	7[illegible].[illegible]	73.[illegible]	75.6	75.5	8[illegible].8	83.8	85.8	88.3	83.9	77.8							16.5
8000	72.4	7[illegible].9	73.8	77.[illegible]	8[illegible].2	8[illegible].5	86.2	87.3	88.3	84.8	77.9							17.6
10000	69.8	71.4	73.8	77.8	79.2	8[illegible].1	82.8	84.7	87.2	82.6	75.9							15.8
12500	77.5	8[illegible].7	85.7	9[illegible].3	94.[illegible]	8[illegible].4	9[illegible].8	9[illegible].2	9[illegible].9	88.2	8[illegible].6							17.7
16000	73.1	75.9	80.4	85.8	88.3	8[illegible].1	9[illegible].1	89.8	90.0	83.8	77.4							17.7
20000	71.8	71.5	73.5	76.5	79.8	8[illegible].2	85.3	87.5	91.1	83.9	76.5							17.5
25000	72.7	71.4	72.3	73.2	76.9	8[illegible].9	83.3	85.9	88.8	83.5	75.2							17.3
31500	72.7	72.2	71.6	72.4	75.[illegible]	8[illegible].5	83.8	83.[illegible]	85.7	80.7	72.8							14.6
40000	75.4	74.5	72.7	72.3	74.7	8[illegible].6	79.8	8[illegible].9	83.1	78.9	78.8							14.3
50000	77.6	77.6	75.3	74.0	75.5	8[illegible].4	78.2	75.4	78.6	76.2	71.1							14.6
63000	84.9	84.3	81.4	8[illegible].6	8[illegible].8	8[illegible].5	83.4	75.[illegible]	8[illegible].2	79.9	78.5							14.5
80000	92.7	94.2	89.6	87.9	88.6	8[illegible].7	89.3	78.4	85.9	85.9	85.4							14.2
OVERALL MEASURED																		
OVERALL CALCULATED	94.1	95.4	92.9	94.8	96.9	9[illegible].8	98.[illegible]	98.4	99.8	96.6	92.9							19[illegible].3
PNDB	93.7	94.8	96.2	98.6	103.2	9[illegible].9	104.2	105.2	107.9	105.8	101.5							

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MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	53																	
	63																	
SIDELINE 200. FT.	80	39.8	41.3	43.4	44.1	44.0	46.5	45.8	45.5	47.2	48.1	48.0						
(60.96 M)	100	49.7	53.2	51.2	49.3	43.2	52.5	48.5	46.5	48.4	49.6	49.4						
VEHICLE 3=55	125	45.2	48.5	50.9	49.3	51.7	55.0	48.5	49.4	50.3	50.0	49.5						
CONFIG 73=3	160	44.5	46.6	47.2	47.9	43.5	54.1	49.1	48.8	50.9	50.3	48.8						
LOC SCHROEDTADY	200	43.8	45.1	46.5	47.7	49.3	53.1	51.4	51.5	52.4	52.2	50.1						
DATE 01-29-75	250	43.4	43.2	49.9	51.3	52.0	53.5	52.6	51.2	52.0	50.8	48.4						
RUN RLV 68, PT=2	315	47.3	49.4	50.1	51.0	51.4	53.2	51.7	50.6	50.7	49.9	47.5						
TAPE 31	400	45.1	46.9	48.4	49.8	50.5	53.5	53.8	50.4	51.2	49.7	46.6						
BAR 29.7 HG	500	43.7	45.7	47.2	48.7	49.4	53.6	51.8	51.2	51.7	49.7	46.0						
(100157. N/M2)	630	45.5	47.0	49.0	51.0	52.6	55.4	54.9	53.3	53.2	52.7	49.4						
TAMB 47. DEG F	800	45.6	47.2	48.5	50.4	51.3	55.9	53.8	52.2	52.4	49.5	43.6						
(281. DEG K)	1000	43.9	46.8	48.0	49.2	50.6	54.1	53.1	52.7	53.7	52.5	43.3						
TWET 43. DEG F	1250	43.0	45.4	46.5	49.4	49.8	54.1	52.5	51.9	52.8	50.6	42.2						
(279. DEG K)	1600	42.7	44.6	46.9	51.4	51.7	54.5	52.9	53.0	54.2	52.4	42.1						
HACT 6.13 GM/M3	2000	41.1	42.2	43.5	48.5	46.6	49.0	47.1	45.4	45.8	43.2	38.0						
(.00613 KG/M3)	2500	41.8	42.6	44.3	49.6	48.2	54.1	47.5	44.9	44.5	41.4	36.5						
NFA 6258. RPM	3150	42.5	42.2	43.8	49.1	48.4	54.4	50.8	47.4	51.2	45.7	37.0						
(655. RAD/SEC)	4000	39.5	42.0	43.8	46.4	49.0	54.7	51.8	50.1	53.6	48.3	37.9						
NFK 6332. RPM	5000	41.7	43.5	46.8	49.9	51.7	54.9	57.3	55.8	58.8	51.8	39.8						
(663. RAD/SEC)	6300	42.2	44.7	47.6	50.6	53.7	54.8	58.2	58.9	59.4	51.6	39.3						
NFB 8823. RPM	8000	41.3	44.3	47.2	51.1	54.4	54.4	59.4	59.1	57.9	49.8	36.6						
(924. RAD/SEC)	10000	38.7	42.0	45.6	49.4	51.8	54.5	54.4	54.8	54.6	45.7	30.7						
NO. OF BLADES 15	12500	43.6	49.8	55.2	61.5	64.5	63.7	62.8	61.6	57.3	47.4	31.7						
FAN TIP SPEED	16000	34.6	39.9	46.0	52.4	55.2	54.5	55.4	52.7	49.4	36.5	17.0						
946. FT/SEC	20000	26.4	30.0	34.1	38.2	41.2	43.9	45.9	44.9	43.8	28.2	3.7						
	25000	19.4	22.2	25.7	28.1	32.2	34.7	36.2	35.3	31.9	15.6							
	31500	6.7	11.6	14.5	17.3	21.4	23.1	23.8	20.8	14.9								
	40000				2.2	5.4	7.2	6.1	0.8									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		57.8	60.4	62.2	65.6	67.6	69.6	68.3	67.8	67.8	63.4	59.0						
PNDB		66.9	69.3	71.4	74.6	76.1	78.7	78.3	79.8	80.8	74.8	69.9						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 2 DAY 25 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	53																		
	63																		
RADIAL 17. FT.	80	63.1	64.4	65.7	66.2	66.7	70.2	70.2	72.0	74.2	78.1	82.4							[illegible]
(S. 4)	100	67.4	71.7	72.3	71.3	72.5	72.3	71.5	71.8	75.8	79.6	83.5							[illegible]
VEHICLE R=55	125	74.2	79.5	79.8	77.1	75.3	77.1	74.1	77.1	78.8	80.2	83.8							[illegible]
CONFIG 75=3	160	71.2	72.2	72.3	72.8	72.8	75.3	75.3	76.5	78.8	80.4	83.5							[illegible]
LOC SCHENECTADY	200	73.2	74.6	71.6	72.1	74.1	77.1	76.8	78.4	80.1	82.2	84.8							[illegible]
DATE 01-29-75	250	73.7	74.8	76.3	76.3	77.1	77.3	78.6	79.6	81.1	81.9	83.8							[illegible]
RUN RUN 68, PT=3	315	74.8	75.3	75.8	76.4	76.6	76.9	77.6	78.4	79.6	81.2	82.3							[illegible]
TAPE 31	400	73.7	74.0	74.0	74.8	75.5	76.5	77.6	78.3	79.3	80.6	82.2							[illegible]
BAR 29.7 HG	500	71.6	72.6	73.2	73.9	73.4	74.7	77.9	78.9	79.9	81.0	81.3							[illegible]
(00157. N/M2)	630	72.7	73.0	74.8	76.1	77.6	77.3	80.0	80.9	81.1	81.2	80.8							[illegible]
TAMB 47. DEG F	800	73.3	73.6	74.1	75.6	76.4	77.9	78.8	79.9	80.4	80.2	79.5							[illegible]
(281. DEG K)	1000	71.5	72.8	73.3	74.3	75.9	78.8	79.8	80.1	81.9	80.4	79.2							[illegible]
THET 43. DEG F	1250	73.8	71.6	72.1	73.9	74.6	76.8	78.3	79.4	80.7	80.8	78.5							[illegible]
(279. DEG K)	1600	73.2	71.5	72.7	74.5	75.2	76.9	77.7	79.3	80.8	80.7	77.9							[illegible]
RACT 6.13 SM/M3	2000	69.3	70.3	71.6	73.1	74.1	75.5	76.0	75.9	77.7	78.3	76.0							[illegible]
(.00613 KG/M3)	2500	69.0	69.8	71.0	72.8	74.3	75.2	74.4	73.9	74.6	74.5	74.7							[illegible]
NFA 7544. RPM	3150	69.9	69.6	71.0	72.6	75.1	76.2	77.2	76.1	80.2	76.8	75.4							[illegible]
(739. RAD/SEC)	4000	68.8	69.6	71.0	73.1	75.8	78.4	78.9	79.1	84.0	80.6	78.4							[illegible]
NFK 7127. RPM	5000	70.5	72.3	73.5	77.1	79.3	82.4	84.1	85.9	89.0	84.4	78.9							[illegible]
(746. RAD/SEC)	6300	71.7	73.3	75.6	77.6	81.5	85.4	86.8	88.6	90.8	95.7	79.8							[illegible]
NFD 8823. RPM	8000	72.7	74.6	77.8	80.1	83.2	86.5	89.7	90.5	92.0	86.5	80.4							[illegible]
(924. RAD/SEC)	10000	76.8	72.1	74.8	77.7	79.9	82.3	85.1	87.5	89.7	83.1	77.4							[illegible]
NO. OF BLADES 15	12500	74.3	77.4	82.0	85.8	89.0	92.3	90.3	93.0	92.4	87.0	81.9							[illegible]
FAN TIP SPEED	16000	72.9	75.9	79.7	83.8	86.3	89.6	95.3	91.8	92.0	85.5	79.4							[illegible]
815. FT/SEC	20000	71.8	74.2	77.3	79.5	82.0	85.0	88.5	91.9	92.9	86.2	78.3							[illegible]
	25000	73.0	74.4	74.6	76.7	81.3	84.2	87.1	90.2	91.5	84.3	77.7							[illegible]
	31500	74.6	73.2	73.6	75.7	78.5	81.5	85.3	88.5	89.2	83.7	75.8							[illegible]
	40000	75.2	74.2	73.2	74.6	77.7	80.9	83.6	85.7	86.8	81.4	73.3							[illegible]
	50000	77.4	76.1	74.3	74.3	75.5	78.9	80.5	80.7	81.8	78.2	73.1							[illegible]
	63000	84.9	83.6	81.2	80.1	81.3	78.5	83.9	82.9	82.2	80.1	78.8							[illegible]
	80000	92.2	93.4	89.1	88.1	88.8	86.2	90.8	87.7	86.4	84.2	85.2							[illegible]
OVERALL MEASURED																			
OVERALL CALCULATED		93.9	94.9	92.8	93.7	95.6	97.8	99.2	100.7	101.0	97.6	95.6							[illegible]
	PNDB	96.8	97.4	98.9	100.8	102.7	99.4	107.1	108.5	110.4	107.4	104.5							

 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 2 DAY 25 HR. 19.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
SIDELINE 200. FT. 80	39.5	41.8	43.7	44.6	45.2	46.5	48.1	49.0	49.9	51.6	52.5						
(60.96 M) 100	43.7	49.0	50.2	49.6	48.9	50.5	48.8	48.7	51.4	53.1	53.4						
VEHICLE B-55 125	53.4	56.7	57.6	55.3	53.7	53.3	51.8	53.0	54.3	53.5	53.5						
CONFIG 75-3 160	47.3	49.3	50.0	50.9	51.0	51.4	52.9	53.3	54.2	53.5	53.0						
LOC SCHENECTADY 200	46.3	47.6	49.3	50.2	52.3	53.1	54.4	55.0	55.4	55.2	54.1						
DATE 01-29-75 250	49.7	51.7	53.9	54.3	55.2	55.3	56.1	56.2	56.3	54.8	52.9						
RUN RLW 68. PTS3 315	50.6	52.1	53.4	54.3	54.6	54.7	55.5	54.8	54.7	53.9	51.2						
TAPE 31 400	49.4	50.7	51.4	52.6	53.5	53.3	54.3	54.6	54.2	53.2	50.9						
BAR 28.7 HG 500	47.2	49.2	50.5	51.7	53.3	53.3	55.1	55.2	54.7	53.4	49.8						
(00157. M/12) 630	48.2	49.5	51.8	53.7	55.3	55.9	57.1	57.8	55.7	53.4	48.9						
TAMB 47. DEG F 800	48.6	50.0	51.2	53.1	54.8	55.3	55.8	55.9	54.9	52.3	47.4						
(281. DEG K) 1000	46.6	49.0	50.3	51.7	53.3	54.1	55.0	56.0	56.2	52.2	46.8						
TWET 43. DEG F 1250	45.8	47.7	49.0	51.2	52.0	52.1	53.5	55.1	54.8	52.4	45.7						
(279. DEG K) 1600	44.9	47.4	49.4	51.8	52.5	52.1	54.2	54.8	54.7	51.9	44.6						
HACT 6.13 GM/M3 2000	43.8	46.0	48.0	50.0	51.1	52.4	52.3	51.2	51.3	49.3	42.2						
(.00613 KG/M3) 2500	43.3	45.3	47.3	49.6	51.2	52.0	51.5	48.9	48.0	45.2	40.5						
NFA 7144. RPM 3150	43.0	44.7	47.0	49.1	51.7	52.6	53.5	50.9	53.2	47.0	40.5						
(738. RAD/SEC) 4000	42.2	44.3	46.8	49.2	52.0	52.4	54.3	53.4	50.4	50.0	40.4						
NFK 7127. RPM 5000	43.7	46.8	48.8	52.9	55.2	55.2	59.3	59.8	61.1	53.3	42.3						
(746. RAD/SEC) 6300	43.9	47.0	50.1	52.6	55.7	55.5	61.2	61.9	61.9	53.4	41.3						
NFD 8823. RPM 8000	43.5	47.8	50.4	54.1	57.4	56.4	62.9	62.4	61.6	54.3	39.1						
(924. RAD/SEC) 10000	39.7	42.8	46.6	50.2	52.6	49.7	56.6	57.3	57.1	48.2	32.2						
NO. OF BLADES 13 12500	40.4	45.6	51.4	56.8	59.5	58.5	59.5	60.4	56.8	46.2	29.9						
FAN TIP SPEED 16000	34.3	39.9	45.3	50.4	53.2	49.8	55.6	54.7	51.4	37.8	19.8						
815. FT/SEC 20000	27.1	32.8	37.9	41.2	44.2	38.6	48.7	48.9	45.5	28.4	9.8						
25000	19.7	25.2	28.8	31.6	35.7	30.0	39.9	39.5	34.7	18.1							
31500	7.9	12.6	16.5	20.5	23.9	19.1	27.5	26.0	18.4								
40000			0.4	4.4	8.4	4.5	9.8	5.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.1	62.9	64.6	66.1	67.8	68.6	75.3	74.4	70.2	66.8	62.9						
PNDB	69.6	72.1	74.3	76.9	78.8	79.2	82.2	82.4	82.6	77.6	69.3						

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 2 DAY 25 HR. 19:8

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	68.4	69.9	70.2	69.5	7[illegible].0	72.5	74.0	75.9	77.5	81.1	85.9							110.8
(5. M)	100	69.9	72.5	73.5	72.5	73.0	74.6	74.5	75.3	79.0	82.9	87.5							113.5
VEHICLE R=55	125	75.0	77.5	77.3	76.3	77.3	78.4	78.6	81.6	82.3	83.7	87.5							116.6
CONFIG 75=3	150	74.9	75.7	75.5	75.8	75.3	77.[illegible]	78.5	79.8	82.3	84.4	87.2							116.2
LOC SCHENECTADY	200	73.5	74.3	74.3	75.4	77.4	79.4	83.3	81.9	83.6	85.9	88.3							115.5
DATE 02-20-75	250	73.7	79.3	81.1	81.3	82.1	83.8	84.1	85.6	86.4	87.2	88.5							118.1
RUN RUN 68, PT=4	315	78.0	78.8	78.8	79.4	79.9	79.4	81.1	81.9	83.1	84.4	86.8							116.6
TAPE 31	400	77.2	77.2	77.8	77.8	79.6	77.8	80.5	81.8	82.8	83.9	85.7							117.8
BAR 29.7 HG	500	75.1	75.6	76.9	76.7	75.2	76.4	80.9	82.2	83.4	84.0	84.8							117.6
(00157. M/M2)	630	76.2	76.2	78.1	75.3	79.8	77.6	82.5	83.1	84.1	84.2	84.5							117.4
TAMB 47. DEG F	800	76.3	76.8	78.6	78.6	79.1	76.[illegible]	81.8	82.9	83.6	83.5	83.5							117.9
(281. DEG K)	1000	74.5	75.5	78.3	77.1	79.8	75.[illegible]	81.5	82.9	84.1	83.4	82.7							117.7
THET 43. DEG F	1250	74.3	74.3	77.6	76.7	77.9	74.6	81.1	81.7	83.7	82.5	82.0							117.0
(279. DEG K)	1600	73.9	74.2	75.[illegible]	75.8	77.3	73.[illegible]	79.4	80.3	82.3	81.4	80.9							117.7
MACT 0.13 GM/M3	2000	74.8	74.3	75.8	76.9	75.3	73.[illegible]	79.3	80.4	82.9	82.8	85.7							117.7
(.00013 KG/M3)	2500	73.2	73.8	74.8	75.8	77.3	72.[illegible]	77.7	77.6	78.4	78.8	84.8							117.8
NFA 7019. RPM	3150	72.8	73.6	74.5	75.6	77.6	72.[illegible]	77.9	78.4	81.7	79.3	84.5							117.4
(661. RAD/SEC)	4000	73.3	73.8	74.3	76.9	79.3	74.[illegible]	81.4	83.1	87.9	83.6	83.5							117.8
NFK 7011. RPM	5000	73.5	74.1	75.3	77.9	8[illegible].1	76.[illegible]	85.4	86.9	90.5	85.4	82.7							118.2
(828. RAD/SEC)	6300	75.9	77.1	78.1	81.8	83.5	81.[illegible]	91.3	92.6	94.3	87.9	82.1							122.7
NFD 8029. RPM	8000	75.7	77.8	80.5	84.1	86.2	82.[illegible]	92.5	94.5	94.8	88.2	82.8							124.8
(924. RAD/SEC)	10000	73.3	74.6	76.5	79.5	81.7	77.[illegible]	88.1	90.2	91.9	85.3	79.2							122.4
NO. OF BLADES 15	12500	74.8	76.9	80.6	83.[illegible]	86.8	86.[illegible]	9[illegible].8	9[illegible].7	9[illegible].9	87.5	81.4							122.6
FAN TIP SPEED	16000	75.6	77.1	80.9	83.6	86.3	85.[illegible]	9[illegible].8	94.6	93.5	87.0	81.6							122.1
883. FT/SEC	20000	76.0	77.7	80.5	83.2	86.3	85.[illegible]	92.0	94.9	95.1	88.9	81.8							123.1
	25000	76.3	76.9	78.8	81.0	84.8	86.[illegible]	9[illegible].1	94.2	95.7	89.2	82.0							123.6
	31500	75.7	76.4	76.8	79.4	82.3	7[illegible].2	89.3	92.5	93.4	86.7	79.1							120.6
	40000	76.4	76.7	75.4	77.3	8[illegible].2	7[illegible].1	87.3	89.9	90.1	84.4	75.6							119.3
	50000	78.4	78.1	75.1	75.7	93.5	7[illegible].1	83.7	84.7	85.3	80.7	73.6							121.0
	63000	85.4	84.6	81.7	81.1	82.5	8[illegible].5	84.9	84.5	84.4	81.4	78.8							126.2
	80000	93.4	93.7	89.4	88.1	88.8	88.[illegible]	9[illegible].8	87.7	86.9	85.7	85.2							136.1
OVERALL MEASURED																			
OVERALL CALCULATED		95.5	95.8	94.3	95.1	96.9	94.[illegible]	101.7	103.7	104.5	100.0	96.3							130.6
PNLT		99.9	100.7	102.3	104.0	105.6	102.[illegible]	110.7	111.9	113.8	110.8	109.9							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

		ANGLES FROM INLET IN DEGREES (AND RADIANS)												
	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	44.8	47.3	48.2	47.8	49.5	50.9	51.8	52.3	53.1	54.6	56.0						
(6).95 M)	100	46.2	49.7	51.4	51.8	51.4	51.7	52.3	52.2	54.6	56.3	57.4						
VEHICLE R=55	125	51.2	54.7	55.1	54.5	55.7	54.4	56.3	57.4	57.8	57.1	57.3						
CONFIG 75=3	160	51.0	52.8	53.3	53.9	54.5	54.1	56.1	56.5	57.6	57.5	56.8						
LOC SCHENECTADY	200	49.5	51.3	52.0	53.4	53.6	53.4	57.9	58.5	58.9	59.0	57.6						
DATE 11-29-75	250	54.7	56.2	58.7	59.3	6 .2	58.4	61.6	62.2	61.5	6 .1	57.7						
RUN RUN 68. PT=4	315	53.8	55.6	56.4	57.3	57.9	58.2	58.5	58.3	58.1	57.2	55.7						
TAPE 31	400	52.9	53.9	55.2	55.6	57.8	58.5	57.8	58.1	57.7	56.4	54.4						
BAR 29.7 HG	500	50.7	52.2	54.2	54.4	56.3	58.1	58.1	58.5	58.2	56.4	53.3						
(00197. M/M2)	630	51.7	52.5	55.3	56.1	57.6	58.2	59.6	59.3	58.7	56.4	52.7						
TAMB 47. DEG F	800	51.6	53.2	55.7	56.1	55.8	58.6	58.8	58.9	58.1	55.5	51.4						
(281. DEG K)	1000	49.8	51.8	55.3	54.5	56.3	58.4	58.3	58.7	58.4	55.2	50.3						
TWET 43. DEG F	1250	49.3	50.4	54.5	53.9	55.3	58.8	57.7	57.4	57.8	54.1	49.2						
(279. DEG K)	1600	48.7	51.1	51.6	52.9	54.2	58.2	55.9	55.8	56.2	52.7	47.8						
WACT 6.13 G/M3	2000	49.3	53.0	52.3	53.8	55.4	57.4	55.6	55.7	54.5	51.7	51.9						
(.00613 KG/M3)	2500	47.6	49.3	51.8	52.6	54.2	46.4	53.8	52.7	51.8	49.4	50.6						
AFA 7819. RPM	3150	46.7	48.7	50.5	52.1	54.2	47.1	53.8	53.1	54.7	49.5	49.8						
(819. RAD/SEC)	4000	46.7	48.5	49.8	52.9	55.5	58.2	56.8	57.4	60.4	53.1	47.6						
AFM 7811. RPM	5000	46.7	48.5	50.6	53.7	56.8	58.9	60.5	60.8	62.5	54.3	46.1						
(818. RAD/SEC)	6300	48.2	50.7	53.6	56.9	54.7	58.2	65.7	65.7	65.3	55.6	43.8						
AFC 8823. RPM	8000	46.5	50.0	53.9	53.1	6 .4	58.2	65.7	66.4	64.3	54.2	41.3						
(924. RAD/SEC)	10000	42.2	45.3	48.4	51.8	54.3	58.0	59.6	60.3	59.4	48.5	34.0						
NO. OF BLADES 15	12500	43.9	45.1	49.4	53.3	56.5	58.6	60.8	6 .1	58.3	46.7	30.4						
FAN TIP SPEED	16000	37.1	41.1	46.5	50.2	53.2	48.5	56.9	57.9	52.8	39.8	21.3						
663. FT/SEC	20000	31.4	36.3	41.1	45.0	48.2	43.6	52.2	51.0	47.8	33.2	9.0						
	25000	22.7	27.7	32.2	35.9	4 .2	38.4	43.9	43.5	38.9	21.4							
	31500	9.7	15.8	19.7	24.3	27.7	28.9	31.5	30.0	22.7	1.1							
	40000			2.6	7.2	11.9	6.7	13.6	9.8									
	50400																	
	63000																	
	80000																	
OVERALL CALCULATED		63.5	65.3	67.4	68.5	7 .1	6 .9	73.2	73.6	73.1	69.1	67.0						
PNDB		73.4	75.3	77.7	79.8	81.6	7 .7	83.7	83.8	83.8	79.3	75.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 18 HR 13.8

MODEL SOUND PRESSURE LEVELS (50. DEG F, 70 PERCENT REL HUM, DAY)

ANGLES FROM INLET (A DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	65.1	69.9	67.2	67.7	68.5	72.7	73.2	74.7	77.2	80.6	85.2							111.9
(5. M)	100	67.2	70.5	71.3	71.8	72.3	75.0	75.3	76.0	78.8	82.4	87.8							114.7
VEHICLE -99-T	125	74.7	77.3	77.1	75.8	77.1	78.6	78.3	80.1	81.8	82.9	87.5							117.3
CONFIG NC-826	160	74.6	79.2	74.8	75.5	75.8	78.0	77.8	79.3	82.0	83.6	87.8							117.7
LOC SCHENECTADY	200	73.0	72.6	73.3	75.1	76.9	78.1	79.6	81.1	83.1	84.9	88.0							118.8
DATE 01-29-75	250	76.0	78.5	79.8	80.3	81.6	82.1	83.1	84.8	85.4	86.4	87.8							122.2
RUN 685	315	77.8	78.6	78.6	79.1	79.1	79.9	80.8	81.4	82.9	84.2	86.3							121.1
TAPE 31	400	76.7	77.8	76.8	77.5	78.3	79.8	80.2	81.3	82.5	83.4	85.7							119.4
BAR 30.8 HG	500	74.8	74.6	75.2	76.4	77.4	79.7	80.4	81.4	82.9	83.8	84.3							118.8
(1012.2 N/M2)	630	75.2	75.8	76.6	78.3	79.1	79.3	82.5	83.1	83.6	83.9	84.8							119.9
TAMB 47. DEG F	800	95.8	99.8	96.6	97.9	98.9	99.9	81.3	82.4	82.9	83.8	82.8							122.2
(281. DEG K)	1000	74.5	74.8	74.8	76.6	77.6	79.8	80.8	82.6	83.6	82.2	82.2							118.8
TWET 42. DEG F	1250	74.3	73.8	74.6	76.4	77.4	79.3	80.6	81.9	83.4	81.8	81.5							118.4
(279. DEG K)	1600	72.8	73.0	74.6	75.5	76.5	78.5	79.2	80.4	82.1	80.7	80.4							117.2
WACT 5.95 GM/M3	2000	73.5	73.3	74.6	76.6	77.0	78.8	80.4	82.4	83.4	80.3	80.8							117.4
(.00855 KG/M3)	2500	72.5	72.3	73.5	75.6	76.8	78.8	77.4	77.4	78.7	78.3	78.4							116.4
NF1 7819. RPM	3150	72.0	72.1	73.3	74.9	77.3	78.5	78.8	78.1	81.7	78.6	78.2							116.3
(819. RAD/SEC)	4000	72.8	72.8	73.8	76.4	78.8	79.8	80.9	82.4	83.8	83.6	79.4							117.9
NF2 7911. RPM	5000	72.0	72.8	74.8	77.7	79.8	79.9	85.2	87.2	86.2	84.6	79.8							119.9
(828. RAD/SEC)	6300	75.2	75.9	78.8	81.6	83.8	86.2	91.1	93.1	94.8	87.4	82.3							122.9
NF3 3823. RPM	8000	74.9	77.1	80.2	84.8	86.2	91.2	92.2	94.2	94.5	88.4	83.8							123.7
(924. RAD/SEC)	10000	71.3	73.4	76.3	79.4	81.4	86.8	88.8	90.7	91.4	85.8	78.9							120.5
NO. OF BLADES 18	12500	73.4	76.3	79.8	82.9	86.1	89.8	91.1	93.8	94.3	87.6	80.9							123.3
FAN TIP SPEED	16000	73.9	76.2	80.3	83.9	86.1	89.8	91.6	94.7	94.6	86.9	81.2							123.3
683. FT/SEC	20000	72.9	76.6	80.7	83.1	85.7	89.8	92.2	94.9	96.8	88.6	81.7							123.5
	25000	71.4	74.1	77.7	80.4	83.7	87.4	90.7	93.5	95.1	88.9	80.4							122.0
	31500	69.9	73.1	75.5	78.3	81.4	77.8	84.9	92.4	93.1	86.8	78.2							120.2
	40000	69.6	73.0	75.9	79.9	79.4	74.8	86.7	88.6	90.0	83.8	75.8							117.4
	50000	68.2	69.9	73.8	73.6	69.7	69.8	82.3	82.9	78.1	69.2								117.9
	63000	66.4	69.8	63.6	65.8	64.8	71.4	72.3	73.8	60.7	63.6								115.5
	80000	66.5	66.5	69.8	64.7	65.8	66.7	69.1	69.1	63.4	64.4								112.3
OVERALL MEASURED		88.9	91.6	91.2	93.5	95.0	94.8	101.8	103.4	104.5	99.4	98.2							134.4
OVERALL CALCULATED	PWL0	99.0	99.6	101.9	103.7	105.2	107.0	110.4	112.9	113.9	109.9	107.3							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC DATE - MONTH 3 DAY 18 HR 13.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL HUM, OVER)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
50																	
63																	
80	41.5	43.3	45.2	46.1	47.8	48.8	51.1	51.7	92.9	94.1	55.3						
100	43.5	47.7	49.2	50.1	50.7	53.3	51.0	51.4	93.6	55.8	56.9						
125	53.9	54.5	54.9	94.8	55.4	54.8	54.8	56.9	97.3	56.2	57.3						
160	98.5	52.3	92.5	93.7	54.0	54.1	55.4	56.0	97.4	96.8	56.5						
200	49.8	49.6	51.8	93.2	55.1	54.1	97.1	57.8	98.4	98.8	97.4						
250	53.9	55.5	57.4	98.3	59.7	58.8	80.4	61.4	60.5	59.3	56.9						
315	53.6	55.4	56.1	57.8	57.1	56.7	58.2	57.8	57.8	56.9	55.2						
400	52.4	53.7	54.2	55.3	56.2	56.5	57.5	57.4	57.4	55.9	54.4						
500	99.4	51.2	52.5	94.2	55.3	54.3	57.6	57.7	57.7	56.2	52.8						
630	50.7	51.5	53.8	56.8	56.8	56.9	50.6	59.3	58.2	56.2	52.2						
800	51.1	52.2	53.7	55.4	56.5	56.3	58.3	58.4	57.4	55.8	50.6						
1000	49.6	51.0	51.8	54.8	55.1	54.1	57.6	58.5	57.9	54.8	49.8						
1250	49.3	49.9	51.5	53.7	54.8	54.6	57.3	57.6	57.6	53.4	48.7						
1600	47.7	48.9	50.6	52.6	53.7	53.5	55.7	56.8	56.8	51.9	47.1						
2000	46.1	47.8	51.8	53.5	54.9	54.9	55.1	55.7	54.1	51.2	46.2						
2500	46.8	47.8	49.8	52.3	53.7	53.6	53.6	52.4	52.8	48.9	44.2						
3150	46.8	47.3	49.3	51.3	53.9	53.9	53.8	52.9	54.7	48.7	43.3						
4000	45.5	47.5	49.3	52.4	55.8	56.9	54.3	54.7	60.4	53.1	43.4						
5000	45.2	47.3	50.1	53.5	55.8	56.7	60.3	61.1	62.3	53.6	43.1						
6300	47.5	49.5	53.4	56.7	58.3	58.2	65.5	66.2	65.9	55.2	43.8						
8000	45.7	49.9	53.6	58.8	60.3	59.1	65.4	66.1	64.8	54.2	41.8						
10000	48.2	44.2	48.1	51.8	54.1	48.2	59.6	60.9	58.8	48.2	38.7						
12500	39.5	44.4	49.2	53.1	54.6	56.8	60.3	61.2	58.6	48.7	38.8						
16000	34.4	48.2	45.9	50.5	53.8	47.8	56.7	57.8	53.9	39.6	28.8						
20000	28.3	39.2	41.3	44.9	47.8	42.8	52.4	52.3	48.7	32.8	8.9						
25000	18.1	24.9	31.1	35.3	39.1	33.8	43.6	42.9	34.3	21.8							
31500	3.8	12.5	18.3	23.2	24.8	22.2	31.1	29.9	22.3	8.4							
40000				9.8	10.1	4.8	13.8	8.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	82.9	84.5	84.2	88.2	88.7	87.8	72.7	73.9	73.8	88.5	84.4						
PNDB	72.6	74.2	74.8	79.8	81.1	77.6	85.4	85.9	88.9	78.8	72.3						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 3 DAY 28 HR. 13.8

MODEL SOUND PRESSURE LEVELS (90, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
90																			
63																			
80	68.9	69.9	73.8	75.7	75.2	73.7	71.8	67.5	67.7	71.1	73.9								116.9
100	74.4	78.2	79.5	81.3	80.8	78.5	77.8	78.5	76.3	74.1	76.5								118.0
125	64.7	60.3	73.3	68.8	78.8	74.8	67.1	78.3	71.1	71.9	75.8								108.3
160	64.2	65.2	69.3	65.5	65.8	93.6	67.8	68.3	70.1	71.9	74.5								107.4
200	63.8	63.3	63.8	65.1	66.9	74.6	69.1	78.9	72.1	74.2	75.5								109.0
250	66.5	67.9	68.3	69.1	69.3	74.1	71.1	71.4	72.8	73.2	74.3								110.4
315	67.5	68.1	68.3	68.6	68.9	73.6	69.6	78.4	71.4	72.2	73.8								110.6
400	65.9	67.8	68.3	67.3	68.8	73.8	70.2	78.3	71.8	72.1	73.2								110.2
500	64.8	65.9	65.4	66.9	67.0	71.7	70.9	71.8	72.7	73.8	73.1								110.5
630	66.9	67.8	68.1	69.8	70.8	72.3	73.8	74.4	75.4	74.9	73.8								112.5
800	66.8	67.3	67.4	68.9	69.6	73.4	72.6	73.4	74.9	74.8	71.8								112.7
1000	64.2	66.8	66.1	67.3	69.3	69.8	73.3	74.9	76.4	76.4	71.7								113.3
1250	66.5	67.1	67.1	69.7	70.9	75.1	76.3	78.7	79.4	81.8	74.8								116.0
1600	62.9	65.2	64.2	66.8	67.5	67.7	71.7	73.3	74.6	76.2	70.6								110.8
2000	61.8	63.8	62.1	64.4	65.3	64.3	66.5	66.4	66.4	67.3	64.8								103.3
2500	61.2	64.8	62.8	65.6	67.9	65.7	68.4	66.9	67.2	66.3	65.7								104.9
3150	63.8	65.8	62.8	64.6	66.6	65.7	70.8	69.4	72.2	73.1	67.4								107.0
4000	66.6	64.6	64.8	67.7	69.8	67.8	74.4	76.2	81.0	80.8	72.7								113.4
5039	67.4	66.3	66.9	71.8	74.8	69.2	77.9	79.7	82.5	81.1	73.4								116.4
6300	69.9	67.1	70.8	76.1	78.5	72.5	80.9	83.1	84.3	81.4	73.3								118.3
8000	69.0	69.2	71.8	75.7	78.2	74.4	81.4	83.5	80.8	82.4	73.8								118.3
10000	69.8	71.8	72.8	76.7	77.4	78.8	81.3	82.4	84.6	80.3	73.4								118.5
12500	70.4	73.5	82.8	87.1	90.6	88.4	92.9	90.6	90.9	85.1	78.7								126.7
16000	66.7	72.7	73.8	79.4	82.9	79.4	85.7	84.7	80.6	81.1	74.8								119.5
20000	62.4	70.9	66.9	69.6	73.2	69.6	80.7	83.8	86.8	81.4	72.4								117.5
25000	64.4	71.4	63.7	66.9	71.8	68.4	77.2	81.8	85.6	79.9	70.1								115.1
31500	67.4	72.8	61.7	65.1	68.8	68.4	75.2	78.7	80.6	75.8	68.9								111.5
40000	69.8	71.9	60.1	62.7	66.1	67.7	73.2	75.4	76.8	74.5	66.8								108.5
50000	69.8	70.6	58.6	58.6	64.8	66.8	68.8	69.3	70.4	68.3	66.8								104.0
63000	68.9	64.4	56.9	54.1	58.3	59.8	59.7	62.1	62.8	59.2	54.8								93.2
80000	58.8	60.8	54.8	55.8	54.7	54.8	55.7	55.1	55.1	53.4	54.4								87.8
OVERALL MEASURED																			
OVERALL CALCULATED	81.8	85.2	86.4	89.8	92.4	94.7	95.2	94.7	94.8	92.8	87.9								125.1
PWL	89.7	92.9	93.4	94.2	96.7	97.9	101.1	100.4	104.2	103.3	98.1								

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 18 HR 13.8

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM, DAY:

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.69)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
50																	
63																	
80	45.3	47.3	50.0	54.1	58.7	58.3	48.0	44.9	43.4	44.6	44.8						
100	50.7	52.5	57.4	59.6	59.2	57.8	54.8	47.5	45.9	47.6	44.4						
125	42.9	45.5	49.1	47.8	49.2	53.0	44.8	47.2	46.6	45.2	44.8						
160	49.3	42.3	43.8	43.7	44.0	53.1	44.6	45.8	45.9	45.8	44.8						
200	37.8	48.3	41.5	43.2	45.1	53.8	46.6	47.5	47.4	47.2	44.9						
250	42.4	44.3	45.9	47.1	47.3	53.8	48.6	48.2	47.8	44.1	43.4						
315	43.3	44.9	49.9	46.9	46.9	53.8	47.8	46.8	46.4	44.9	42.8						
400	41.6	43.7	45.2	45.1	46.8	53.5	47.8	46.9	46.7	44.7	41.9						
500	40.2	42.3	42.7	44.7	45.8	53.8	48.1	48.2	47.8	45.4	41.9						
630	41.5	43.5	45.3	47.5	48.6	54.0	50.9	50.5	50.6	47.2	41.2						
800	42.1	43.7	44.5	46.6	47.3	54.0	49.3	49.6	49.4	46.3	39.4						
1000	39.4	42.3	43.8	44.7	46.8	53.1	50.1	50.7	50.7	48.2	38.3						
1250	41.5	43.2	44.8	46.9	48.3	53.4	52.8	52.4	52.6	52.6	42.8						
1600	37.7	41.1	42.9	43.1	44.7	54.7	48.2	48.8	48.5	47.4	37.4						
2000	35.3	39.3	38.5	41.3	42.6	53.1	42.8	41.7	40.1	38.2	32.2						
2500	35.6	40.3	37.8	37.3	44.4	52.8	38.8	41.7	40.5	38.9	31.9						
3150	34.8	41.8	38.8	41.2	43.2	53.1	45.8	44.1	39.2	43.2	32.2						
4000	36.2	41.3	40.3	43.7	46.8	53.8	49.8	50.1	50.8	50.3	36.7						
5000	37.2	42.3	41.6	44.7	47.8	53.8	52.1	52.6	52.4	50.3	36.8						
6300	38.1	43.3	44.4	45.9	49.3	53.8	53.2	52.2	52.0	49.2	36.8						
8000	37.7	42.8	42.6	45.8	48.8	53.8	52.3	52.5	52.5	49.2	33.2						
10000	37.9	42.3	42.8	47.2	50.1	53.8	52.8	52.4	50.1	49.2	33.8						
12500	42.3	40.6	39.2	37.3	45.3	53.8	48.1	48.1	45.9	44.2	37.1						
16000	38.8	37.7	38.4	40.8	40.3	53.8	51.8	49.8	49.3	43.8	38.8						
20000	37.8	29.4	37.4	34.4	39.3	53.8	48.8	41.1	39.4	38.8							
25000	7.1	28.4	17.1	21.8	30.3	53.8	38.1	30.1	24.8	12.8							
31500		12.2	4.8	9.9	10.1	53.8	17.8	10.1	9.8								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	55.8	58.2	61.2	62.8	68.4	64.2	86.2	68.8	64.2	86.7	54.8						
PNLB	68.7	69.1	67.8	78.8	72.2	71.8	76.1	76.4	76.2	75.8	68.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC: DATE - MONTH 3 DAY 12 HR: 12:3

MODEL SOUND PRESSURE LEVELS (59; DEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	120. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
58																		
63																		
80	76,6	78,2	79,2	81,2	80,0	78,5	75,5	72,5	74,7	74,1	75,4							112,0
100	75,9	77,2	80,5	82,3	81,8	80,8	77,5	73,3	76,5	73,9	76,5							113,0
125	66,5	68,3	70,8	68,1	69,3	67,8	67,8	71,6	71,3	71,9	75,3							104,3
160	64,9	66,2	66,3	68,0	67,3	66,8	68,3	69,3	71,0	72,9	75,0							103,4
200	63,5	63,8	64,1	65,6	66,9	68,6	69,8	71,6	72,9	74,4	76,3							104,4
250	67,0	68,1	69,1	69,1	69,8	70,3	71,4	72,1	73,1	73,4	75,0							105,3
315	67,5	68,8	68,8	68,6	69,1	70,1	70,3	70,9	72,1	72,9	74,3							104,6
400	66,7	67,2	67,3	68,3	68,3	69,5	70,5	71,0	72,5	72,6	73,7							104,3
500	64,8	65,6	65,7	66,9	67,9	69,7	70,9	71,9	72,9	73,0	73,3							104,2
630	66,5	66,5	68,1	69,6	70,8	72,6	74,0	74,6	75,6	74,9	73,5							106,6
800	65,8	66,8	66,6	68,4	69,1	71,4	72,8	73,9	74,9	74,2	72,8							105,7
1000	64,0	65,0	66,1	67,3	68,6	70,5	72,5	74,1	75,9	75,2	73,2							105,7
1250	64,8	66,6	67,1	68,4	69,9	71,6	74,8	77,4	78,4	79,0	77,8							108,3
1600	63,9	65,5	66,2	67,5	68,7	70,7	72,7	74,9	76,3	75,2	73,1							105,5
2000	61,3	64,1	63,3	64,8	66,6	68,3	67,3	68,2	69,2	68,8	67,5							100,7
2500	61,7	64,5	63,8	65,9	67,3	68,7	68,4	67,0	68,9	68,3	66,9							101,3
3150	61,5	64,4	63,1	65,2	66,8	68,7	69,7	70,4	73,5	72,6	68,2							103,2
4000	63,1	67,1	64,8	66,7	69,8	70,7	73,2	76,4	80,5	80,6	73,2							109,0
5000	61,8	65,4	63,8	65,9	68,1	71,2	74,2	78,9	78,3	78,6	72,2							107,9
6300	63,5	66,9	67,1	67,6	70,1	73,4	76,9	79,9	83,1	80,7	73,8							111,1
8030	63,9	67,6	67,2	69,6	72,2	75,4	79,4	81,5	83,5	81,2	74,3							112,6
10000	66,8	70,6	73,5	77,2	80,4	81,8	83,1	85,2	85,9	81,8	75,9							116,1
12500	72,9	70,6	81,3	84,0	88,4	88,8	88,6	90,3	89,8	85,1	79,8							122,7
16000	65,5	69,1	70,8	78,2	79,8	81,8	84,5	87,0	86,9	81,4	74,8							117,2
20000	63,8	71,2	68,3	71,7	75,3	78,7	82,3	86,0	88,3	82,9	74,8							117,3
25000	61,7	69,7	63,3	67,0	70,8	74,4	78,3	81,4	84,0	80,5	71,2							113,8
31500	59,9	66,6	62,0	64,6	68,9	72,9	76,7	79,4	81,6	78,8	68,2							112,5
40000	60,4	64,9	60,6	64,2	67,4	71,3	74,7	78,9	79,3	75,3	65,5							111,7
50000	59,7	62,6	58,4	59,3	62,1	65,0	68,8	70,0	72,1	69,6	60,7							107,7
63000	57,3	58,7	54,8	54,2	55,2	56,7	60,3	61,4	62,7	59,6	54,7							101,7
80000	58,3	58,3	55,8	54,8	54,5	54,9	55,5	54,9	55,4	53,2	54,2							102,6
OVERALL MEASURED																		
OVERALL CALCULATED	82,9	84,8	86,7	89,2	91,3	93,9	96,0	98,4	98,0	92,7	88,3							120,0
PNDB	89,7	92,5	92,2	94,4	96,6	98,9	99,4	101,3	103,6	103,0	98,3							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM., DAY) PROC. DATE - MONTH 3 DAY 12 HR. 12.8

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	53.0	55.5	57.2	59.8	58.5	56.8	53.3	49.5	50.4	47.6	45.5						
100	52.2	54.5	56.4	60.6	60.2	59.0	55.3	48.2	48.1	47.3	46.4						
125	42.7	45.5	48.6	46.3	47.7	46.0	45.5	48.4	46.8	45.2	45.0						
160	41.0	43.3	44.8	46.2	45.5	44.9	45.9	46.0	46.4	46.0	44.5						
200	39.5	40.8	41.8	43.7	45.1	46.6	47.4	48.3	48.1	47.5	45.6						
250	42.9	43.0	46.7	47.1	48.0	48.3	49.1	48.7	48.3	46.3	44.2						
315	43.3	45.6	46.4	46.5	47.1	48.0	47.7	47.3	47.2	45.7	43.2						
400	42.4	43.9	44.7	46.1	46.2	47.3	47.8	47.4	47.4	45.2	42.4						
500	40.4	42.2	43.0	44.7	45.8	47.4	48.1	48.2	47.7	45.4	41.8						
630	42.0	43.0	45.3	47.2	48.4	50.2	51.1	50.6	50.2	47.2	41.7						
800	41.1	43.2	43.7	45.9	46.9	48.8	49.8	49.9	49.4	46.3	39.9						
1000	39.1	41.3	43.0	44.7	46.1	47.9	49.3	50.0	50.2	47.0	38.8						
1250	39.8	42.7	44.0	45.7	47.3	48.8	51.5	53.1	52.6	50.6	40.2						
1600	38.7	41.4	43.9	44.6	46.0	47.7	49.2	49.8	49.2	46.4	37.9						
2000	35.8	39.8	39.8	41.5	42.8	43.1	43.6	43.4	42.8	39.7	33.7						
2500	36.1	40.0	40.0	42.6	44.2	45.4	46.6	46.9	46.3	38.9	32.7						
3150	35.5	39.8	39.0	41.6	43.4	45.1	45.5	45.2	46.8	42.7	33.3						
4000	36.5	41.8	40.2	42.7	46.0	46.7	48.6	50.7	52.9	50.8	37.2						
5000	35.8	39.8	39.8	41.7	44.0	46.9	49.3	50.9	50.3	47.6	35.8						
6300	35.7	40.5	41.7	42.7	45.3	48.5	51.3	53.0	54.2	48.4	35.3						
8000	34.8	40.8	40.6	43.6	46.4	49.6	52.8	53.5	53.1	47.8	33.8						
10000	35.7	41.3	43.4	46.7	53.1	54.2	54.6	55.2	53.5	44.8	30.7						
12500	39.8	44.7	50.8	55.1	58.9	58.4	57.6	57.8	54.2	44.3	28.70						
16000	37.8	38.5	46.8	48.8	47.4	49.8	50.1	48.3	46.2	34.2	14.6						
20000	19.2	20.8	28.9	33.5	37.4	44.4	42.5	43.4	41.9	27.1	1.2						
25000	8.4	28.5	16.7	21.9	26.2	29.2	31.2	30.7	27.1	18.6							
31500		8.0	4.9	11.4	19.4	18.5	18.9	16.9	16.8								
40000						7.9	1.8										
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.6	60.1	62.6	64.0	68.5	69.3	66.0	64.7	63.9	60.3	55.1						
PNDB	63.8	67.1	67.4	69.8	71.7	72.9	74.3	73.1	73.8	72.3	68.7						

SIDELINE 200. FT. (60.96 M)
VEHICLE 75-4
CONFIG NC-028
LOC SCHENECTADY
DATE 01-28-75
RUN 672
TAPE 3I
BAR 30.0 IN HG (01272. N/M2)
TAMB 48. DEG F (282. DEG K)
TRET 42. DEG F (279. DEG K)
HACT 5.26 GM/M3 (.00526 KG/M3)
NFA 5511. RPM (577. RAD/SEC)
NFK 5570. RPM (583. RAD/SEC)
NFD 8023. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 4811. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 12 HR. 12.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	76.6	77.9	77.7	80.2	78.7	77.0	75.2	73.0	73.7	75.8	78.9							111.5
100	72.7	75.5	73.0	69.5	69.8	69.8	70.5	71.0	72.8	76.1	79.7							107.4
125	69.7	70.8	70.3	70.8	72.1	71.3	71.3	74.3	74.3	76.7	80.0							107.8
160	68.7	69.7	69.5	70.5	70.8	70.3	71.8	73.0	73.3	76.9	79.5							107.2
200	68.0	67.6	69.3	70.1	71.1	73.4	73.6	73.6	73.9	78.4	81.0							108.7
250	70.5	71.1	72.3	73.1	73.8	73.3	75.6	75.8	76.4	77.9	79.8							109.1
315	72.3	73.6	73.3	72.6	73.1	73.9	74.3	75.1	76.4	76.9	78.5							108.7
400	70.4	70.7	72.0	71.8	72.0	72.8	74.2	75.3	76.0	77.1	78.9							108.4
500	68.6	68.9	72.2	70.9	71.9	72.9	74.6	75.2	76.7	77.0	77.6							108.1
630	70.2	70.0	76.8	73.6	74.6	75.8	77.3	78.1	79.1	78.4	77.5							110.9
800	69.5	69.8	78.6	72.4	73.4	74.6	75.6	77.2	77.9	77.0	76.8							108.9
1000	69.7	70.0	78.3	71.6	73.3	74.8	76.0	77.1	78.0	78.2	75.9							109.2
1250	69.5	69.3	70.9	70.9	72.1	73.8	75.1	76.0	78.4	78.3	75.6							108.8
1600	70.2	70.2	73.5	74.5	77.0	79.0	79.7	80.3	81.6	82.2	76.6							112.5
2000	66.3	66.8	67.6	69.4	70.1	70.5	71.8	72.7	74.9	73.8	72.2							105.4
2500	66.0	66.5	67.2	69.6	70.8	72.0	71.7	71.1	72.9	71.8	71.7							104.9
3150	66.8	66.8	67.8	69.4	71.8	73.2	73.7	75.2	76.7	76.1	72.9							107.7
4000	65.6	66.6	67.8	69.7	72.1	73.5	74.9	76.7	81.7	78.8	74.4							110.8
5000	66.3	66.6	67.8	70.4	72.3	75.2	78.4	81.7	82.5	80.6	75.4							111.7
6300	67.2	68.6	69.9	71.9	74.3	77.5	80.9	83.6	86.2	82.7	78.5							114.9
8000	67.9	69.4	71.8	73.3	76.4	79.2	82.4	85.8	87.5	84.2	77.1							116.1
10000	68.5	70.4	73.0	77.0	78.9	80.8	83.6	86.2	88.2	82.3	76.4							117.8
12500	74.7	77.1	81.3	85.4	89.2	91.7	90.9	92.1	93.3	87.1	82.2							124.1
16000	70.3	72.6	75.8	81.0	84.2	85.7	89.8	91.0	90.9	84.2	78.3							121.9
20000	68.5	71.0	73.3	77.8	80.0	83.2	86.0	89.2	92.3	85.6	77.5							121.8
25000	67.2	69.8	69.8	73.7	78.1	78.9	82.8	86.1	88.2	83.2	74.9							118.8
31500	67.4	68.1	68.8	71.8	74.7	77.4	80.9	84.2	86.3	80.1	72.4							117.8
40000	67.9	68.7	67.9	69.5	73.2	76.3	79.5	81.4	83.8	78.3	69.3							116.2
50000	68.8	67.9	69.4	69.6	68.1	70.5	73.8	75.3	77.1	73.1	65.9							112.3
63000	66.8	65.5	62.8	62.0	63.0	63.9	66.6	67.2	67.7	64.6	62.7							108.1
80000	68.3	68.3	65.8	64.8	64.5	64.9	65.5	64.9	63.9	63.2	64.2							112.3
OVERALL MEASURED																		
OVERALL CALCULATED	84.0	86.0	87.6	90.1	90.7	94.0	96.8	98.6	99.7	95.2	92.1							126.6
PNDB	93.4	94.8	95.2	96.7	98.5	100.4	102.7	104.7	106.0	104.8	101.3							

 FULL SCALE DATA REDUCTION PROGRAM PROC) DATE = MONTH, 3 DAY 18 HR, 12.3

MODEL SOUND PRESSURE LEVELS (59, DEG F, 70 PERCENT REL, HDR, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	93.0	55.3	55.7	58.6	37.2	55.3	53.1	50.0	51.4	49.4	49.8						
100	49.0	52.7	50.9	47.8	48.2	48.0	48.3	48.0	48.4	49.6	49.7						
125	45.9	48.0	50.1	49.6	50.4	49.5	49.8	51.2	50.8	50.8	49.8						
160	44.8	46.8	47.3	48.7	49.0	48.4	49.4	49.8	50.7	50.8	49.8						
200	44.0	44.6	47.0	48.2	49.3	51.4	51.1	52.3	52.1	51.5	50.4						
250	46.4	48.0	49.9	51.1	52.0	51.3	53.1	52.4	51.5	50.8	48.9						
315	48.1	49.4	50.9	50.5	51.1	51.7	51.7	51.6	51.4	49.7	47.5						
400	46.1	47.4	49.4	49.6	50.0	50.5	51.5	51.6	51.7	49.7	47.6						
500	44.2	45.5	49.5	48.7	49.8	50.6	51.8	51.5	51.5	49.4	46.0						
630	45.7	46.5	54.0	51.2	52.3	53.2	54.4	54.3	53.7	50.7	45.7						
800	44.8	46.2	47.7	49.9	51.8	52.1	52.5	53.2	52.4	49.0	43.9						
1000	44.9	46.3	47.3	49.0	50.8	51.4	52.8	53.0	53.2	50.0	43.0						
1250	44.5	45.9	47.7	48.2	49.5	51.1	51.8	52.6	52.6	49.9	42.2						
1600	44.9	46.1	48.1	51.6	54.2	56.0	56.2	55.8	55.5	53.4	43.4						
2000	40.8	42.5	44.0	46.3	47.1	47.4	48.1	47.9	48.6	44.7	38.9						
2500	40.3	42.0	43.5	46.8	47.7	48.7	47.8	48.2	46.3	42.4	37.5						
3150	40.8	42.3	43.8	45.9	48.4	49.6	49.5	47.9	51.7	46.2	38.8						
4000	39.0	41.3	43.3	45.7	48.3	49.5	50.3	52.9	54.2	48.3	38.4						
5000	39.5	41.0	43.1	46.2	48.3	50.9	52.8	55.6	54.6	49.6	38.8						
6300	39.5	42.3	44.6	46.9	49.3	52.5	55.3	56.5	57.2	50.4	38.1						
8000	38.8	41.8	44.6	47.3	50.6	53.1	55.6	57.6	57.1	50.0	35.8						
10000	37.5	41.0	44.9	49.4	51.6	53.2	55.1	56.7	55.6	45.4	31.2						
12500	40.8	43.2	50.8	55.6	50.6	61.8	60.1	60.5	57.7	46.5	31.3						
16000	31.8	38.6	41.5	47.6	51.1	52.2	54.3	54.1	50.3	36.9	17.9						
20000	23.9	29.5	33.9	38.7	42.2	44.9	46.2	46.6	42.0	29.0	4.7						
25000	23.9	19.7	28.2	26.6	31.4	33.7	35.7	35.5	31.4	15.3							
31500	1.3	7.9	18.9	16.4	20.1	22.0	23.1	21.7	18.6								
40000					3.0	5.9	8.7	1.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.0	61.0	62.0	64.4	66.0	67.0	67.2	67.0	65.2	63.2	59.3						
PNDB	67.4	68.0	71.0	73.0	73.0	76.4	77.0	76.7	76.0	73.9	66.8						

CONFIG NCTR26
LOC SCHENECTADY
DATE 01-28-75
RUN 673
TAPE 31
BAR 30.0 HG (10172. N/M2)
TAMB 48. DEG F (282. DEG K)
TWET 42. DEG F (279. DEG K)
HACT 5.26 GM/M3 (.00526 KG/M3)
NFA 6292. RPM (659. RAD/SEC)
NFK 6350. RPM (665. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 940. FT/SEC
SIDELINE 200. FT (60.96 M)
VEHICLE 754

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC DATE = MONTH 3 DAY 12 HR 12.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.43)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.72)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	OVALL
50																		
63																		
80	87.1	77.9	77.7	80.5	88.2	77.2	75.5	74.0	76.5	78.6	82.7							112.2
100	67.4	78.5	72.0	71.3	70.8	71.3	71.3	72.3	75.5	79.6	84.0							109.3
125	74.5	79.0	79.1	77.1	75.3	74.9	74.6	77.6	78.8	80.2	83.5							112.2
160	72.2	73.2	72.5	73.5	73.3	73.3	75.3	76.5	78.8	80.9	83.7							110.8
200	70.7	78.3	70.8	72.1	73.9	75.9	76.6	78.4	80.4	82.2	84.3							111.8
250	74.2	74.8	75.9	76.6	76.8	77.1	78.8	79.3	80.9	81.4	83.8							112.8
315	75.5	75.6	75.8	76.4	76.6	76.9	77.3	78.4	79.6	80.7	82.3							112.1
400	73.7	74.2	74.3	74.5	75.3	75.8	77.0	77.8	78.5	80.4	82.2							111.4
500	72.1	73.4	72.4	73.7	74.7	75.7	77.6	78.2	80.2	80.8	81.3							111.3
630	72.7	72.5	74.3	75.8	77.3	78.1	80.0	80.9	81.4	80.9	80.8							112.7
800	72.5	72.8	73.4	75.1	76.4	77.4	78.6	79.9	80.4	80.5	79.8							111.9
1000	72.8	72.3	73.1	74.1	75.6	76.8	78.5	80.1	81.4	80.4	79.0							111.8
1250	71.8	71.6	72.4	73.6	74.9	75.9	77.8	79.4	80.9	80.3	78.5							111.3
1600	71.9	72.7	73.7	75.0	77.0	77.7	78.2	80.1	82.3	81.4	78.1							112.4
2000	70.5	70.8	72.8	74.1	75.4	76.0	76.8	78.1	80.9	79.8	77.0							110.9
2500	69.2	69.8	71.0	73.1	74.1	75.0	75.0	75.1	78.9	75.5	75.2							108.4
3150	69.3	70.1	70.8	72.9	74.9	76.5	77.0	77.9	81.5	77.6	75.2							110.5
4000	68.6	69.6	70.6	73.2	75.4	76.7	78.5	82.2	85.3	80.6	76.7							113.2
5000	69.1	69.4	70.8	73.5	75.6	77.7	82.2	82.9	88.5	82.4	77.2							114.2
6300	69.5	70.9	72.2	74.4	75.8	79.0	82.9	86.4	89.6	84.8	78.6							117.0
8000	70.7	72.2	73.8	75.9	77.7	82.3	85.2	89.1	91.8	85.7	79.6							119.8
10000	69.9	73.4	73.6	76.8	78.7	81.9	85.4	89.3	90.5	83.4	77.7							118.4
12500	72.8	74.6	77.2	81.3	84.8	87.0	89.9	91.9	92.4	86.2	80.8							122.2
16000	72.4	73.2	78.2	83.1	86.8	87.6	90.8	92.0	93.0	88.3	80.1							123.3
20000	71.4	74.1	77.7	81.4	83.9	86.1	89.6	92.6	94.4	87.2	80.1							123.9
25000	69.3	71.6	73.4	76.3	80.7	83.3	87.1	90.5	91.6	86.0	78.3							122.2
31500	68.4	70.6	71.5	75.3	78.7	81.6	85.7	88.9	90.1	83.5	75.7							121.2
40000	68.3	70.1	69.8	73.4	76.9	80.0	83.4	85.6	87.8	81.8	72.2							118.4
50000	67.5	68.2	68.2	71.1	73.5	77.8	78.8	80.0	85.9	79.9	67.5							115.3
63000	65.5	65.3	62.9	62.1	63.6	64.8	69.2	69.6	69.5	66.7	62.6							109.5
80000	67.6	67.6	65.1	64.2	63.9	64.2	64.9	64.4	63.3	62.6	63.7							111.9
OVERALL MEASURED																		
OVERALL CALCULATED	84.6	82.9	80.8	81.2	82.1	82.0	87.9	100.1	102.8	97.0	90.0							126.6
PNDB	98.1	96.9	97.8	99.6	101.1	102.7	105.2	107.6	110.2	104.8	104.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG DATE -- MONTH 3 DAY 12 HR 12.3

MODEL SOUND PRESSURE LEVELS (59. DEG F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80	53.5	59.3	55.7	58.8	56.7	55.5	53.3	51.0	52.2	52.1	52.8						
(60.96 M) 100	43.7	48.7	49.9	49.6	49.2	49.5	49.8	49.2	51.1	53.1	53.9						
VEHICLE 79-4 125	50.7	56.2	56.9	55.3	53.7	53.0	52.3	54.4	54.3	53.5	53.3						
CONFIG NC-826 160	48.3	50.3	50.3	51.4	51.9	51.4	52.9	53.3	54.2	54.0	53.3						
LOC SCHENECTADY 200	46.8	47.3	48.5	50.2	52.1	53.9	54.1	55.0	55.6	55.2	53.6						
DATE 01-28-75 250	50.2	51.7	53.4	54.6	55.0	55.1	56.3	53.9	56.0	54.3	52.9						
RUN 674 315	51.3	52.4	53.4	54.8	54.6	54.7	54.7	54.8	54.7	53.4	51.2						
TAPE 31 400	49.4	50.9	51.7	52.3	53.2	53.5	54.3	54.1	54.4	52.9	50.9						
BAR 30.8 HG 500	47.7	49.0	49.7	51.4	52.5	53.4	54.0	54.5	56.0	53.2	49.8						
(01272. N/M2) 630	48.2	49.0	51.5	53.5	55.1	55.7	57.1	57.0	56.0	53.2	48.9						
TAMB 48. DEG F 800	47.8	49.2	50.5	52.6	54.0	54.8	55.5	55.9	54.9	52.5	47.6						
(282. DEG K) 1000	47.1	48.5	50.0	51.5	53.1	54.2	55.3	56.0	55.7	52.2	46.5						
TWET 41. DEG F 1250	46.8	47.7	49.2	51.2	52.3	53.1	54.5	55.1	55.1	51.9	45.7						
(278. DEG K) 1600	46.7	48.6	50.4	52.9	54.2	54.8	54.7	55.6	56.2	52.7	44.9						
HACT 4.70 GM/M3 2000	45.1	46.5	49.3	51.1	52.4	52.9	53.1	53.7	54.6	50.8	43.2						
(.00470. KG/M3) 2500	43.6	45.3	47.3	49.8	50.9	51.7	51.1	50.2	50.3	46.2	41.0						
NFA 7060. RPM 3150	43.3	45.3	46.8	49.4	51.5	52.9	52.8	52.7	52.5	47.8	40.3						
(740. RAD/SEC) 4000	42.0	44.3	46.1	49.2	51.5	52.7	53.8	56.4	57.7	50.1	40.7						
NFK 7146. RPM 5000	42.2	43.8	46.1	49.3	51.6	53.5	57.3	56.9	57.6	51.4	40.6						
(748. RAD/SEC) 6300	41.8	44.6	46.7	49.5	51.1	54.0	57.3	59.5	60.7	51.7	40.1						
NFD 8823. RPM 8000	41.6	44.0	47.2	49.9	51.9	56.2	58.4	60.9	60.4	51.5	38.3						
(924. RAD/SEC) 10000	38.8	42.1	45.4	49.3	51.4	54.3	56.9	58.3	57.9	46.5	32.5						
NO. OF BLADES 15 12500	38.9	42.0	47.1	51.7	55.2	57.2	58.7	59.3	56.8	45.4	29.9						
FAN TIP SPEED 16000	33.9	39.2	44.3	49.7	52.7	54.8	56.1	55.9	52.3	38.8	19.7						
617. FT/SEC 20000	26.8	32.7	38.3	43.1	46.0	47.7	49.8	50.0	47.1	31.5	7.3						
25000	16.8	22.3	28.8	34.2	38.0	38.8	40.0	39.8	36.7	18.2							
31500	2.3	10.0	14.4	20.2	24.1	20.3	27.1	24.1	19.3								
40000				3.3	7.5	9.6	9.7	5.4									
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.1	65.3	64.6	64.2	67.8	68.0	69.2	69.6	69.0	69.8	63.0						
PNDB	69.9	71.9	73.6	73.8	77.4	78.7	80.6	81.5	80.2	78.3	69.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 18 HR, 12,3

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	76,9	77,4	77,5	80,0	77,7	77,0	76,2	75,2	78,7	81,6	85,7							113,2
100	68,4	71,2	72,0	72,5	73,0	74,0	74,3	75,0	78,8	82,4	87,0							111,8
125	75,0	78,5	78,6	75,8	76,8	76,6	78,1	79,8	81,3	83,4	87,6							113,9
160	74,9	75,5	75,3	76,0	76,8	76,8	78,3	79,8	82,3	84,1	87,0							114,8
200	73,5	72,1	73,8	75,1	76,9	76,8	79,3	81,4	83,4	85,4	88,3							115,4
250	78,5	78,8	80,3	80,8	81,4	82,3	83,6	84,8	85,6	86,7	88,8							117,6
315	78,0	78,6	78,6	79,1	79,4	80,1	80,6	81,6	83,1	84,4	86,8							115,3
400	77,2	77,0	77,3	78,3	78,3	79,3	80,5	81,5	82,5	84,1	85,9							114,8
500	75,1	74,9	75,7	76,9	77,4	78,7	80,6	81,4	83,2	84,0	85,1							114,4
630	75,2	73,3	74,4	76,3	76,6	80,3	82,3	83,1	83,9	84,4	84,5							115,4
800	75,3	73,8	74,4	77,4	78,9	80,1	81,6	82,4	83,4	83,2	83,5							114,7
1000	74,7	74,8	75,6	76,6	78,3	79,5	81,0	82,4	83,9	82,4	82,9							114,3
1250	74,3	73,8	75,4	76,9	77,9	79,4	80,6	81,9	82,9	82,3	81,8							113,9
1600	73,7	74,0	75,5	76,3	77,5	78,7	79,7	80,8	82,8	81,7	81,1							113,3
2000	74,8	74,3	76,1	77,9	78,8	79,3	80,3	81,4	82,2	82,1	80,5							114,9
2500	72,5	72,8	73,5	75,6	77,1	77,2	78,2	78,6	81,4	79,3	78,9							111,7
3150	71,5	72,3	73,8	75,2	77,1	78,7	78,8	79,4	82,2	79,6	78,4							112,7
4000	72,3	72,9	74,1	76,9	78,8	79,5	81,7	83,2	83,2	83,9	80,2							116,7
5000	71,1	71,9	73,6	76,2	78,1	80,2	82,1	83,4	87,8	83,6	79,7							116,2
6300	72,8	73,9	75,9	77,6	79,6	83,5	86,7	88,9	92,6	86,2	80,3							120,8
8000	72,9	74,6	76,2	78,8	81,2	84,5	88,2	91,8	94,6	87,7	81,8							121,9
10000	73,8	73,9	76,1	79,8	81,2	83,8	88,8	91,8	92,2	84,6	79,6							120,7
12500	74,8	76,3	79,1	82,7	85,4	88,2	91,9	93,4	94,8	87,6	81,9							123,9
16000	73,6	75,4	80,4	84,8	86,7	88,7	92,8	95,8	94,5	87,8	81,5							124,9
20000	74,1	77,8	81,6	84,3	87,6	90,7	93,6	96,2	96,6	89,7	82,8							127,0
25000	72,3	74,5	78,1	81,8	84,9	88,2	92,1	94,4	95,5	89,5	81,7							126,8
31500	70,3	73,8	76,2	79,8	83,1	86,4	89,9	92,9	93,8	86,8	79,4							123,1
40000	70,3	72,4	74,8	77,2	80,6	84,9	87,4	89,8	90,7	85,8	78,8							121,7
50000	68,1	69,5	68,8	71,4	74,6	77,8	81,7	83,4	83,5	79,2	78,8							116,7
63000	65,3	66,0	63,6	64,5	66,7	67,9	71,0	73,8	73,2	68,9	63,5							112,7
80000	57,9	57,9	59,4	64,4	64,2	64,3	65,2	64,6	64,3	62,9	63,9							112,2
OVERALL MEASURED	88,9	88,8	91,6	93,9	90,6	98,0	101,0	103,6	104,8	99,7	98,5							126,6
OVERALL CALCULATED																		
PNDB	98,9	99,4	100,6	102,6	104,1	105,9	108,2	110,5	110,1	105,2	104,4							

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

MODEL SOURCE PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 3 DAY 12 HR. 12.3

SIDELINE 200. FT. (60.96 M)
VEHICLE 75-4
CONFIG NC-026
LOC SCHENECTADY
DATE 01-28-75
RUN 675
TAPE 31
BAR 30.0 IN HG (01272. N/M2)
TAMB 47. DEG F (281. DEG K)
TWET 41. DEG F (279. DEG K)
HACT 5.00 GM/M3 (.00900 KG/M3)
NFA 7840. RPM (821. RAD/SEC)
NFK 7932. RPM (831. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 684. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	53.3	54.8	55.4	58.3	56.2	55.3	54.1	53.2	54.4	55.1	55.8						
100	44.7	48.5	49.9	50.8	51.4	52.3	52.5	52.0	54.4	55.8	56.9						
125	51.2	53.7	54.4	54.0	55.2	54.8	55.8	55.7	56.8	56.7	56.8						
160	51.0	52.6	53.0	54.2	54.3	54.1	55.9	56.5	57.7	57.3	56.5						
200	46.5	50.1	51.5	53.2	55.1	56.6	56.9	58.0	58.6	58.5	57.6						
250	54.4	55.7	57.2	58.8	59.7	60.3	61.1	61.4	60.8	59.6	57.2						
315	53.8	55.4	56.1	57.0	57.4	58.0	58.0	58.1	58.2	57.2	55.0						
400	52.9	53.7	54.7	56.1	56.2	57.0	57.8	57.9	57.4	56.7	54.6						
500	50.7	51.5	53.0	54.7	55.3	56.3	57.8	57.7	56.0	56.4	53.5						
630	50.7	51.8	53.8	56.0	57.3	57.9	59.4	59.3	58.5	56.7	52.7						
800	50.6	52.2	53.5	54.9	56.5	57.6	58.5	58.9	57.9	55.3	51.4						
1000	49.9	51.0	52.5	54.0	55.8	56.9	57.8	58.2	56.2	54.2	50.0						
1250	49.3	49.9	52.2	54.2	55.3	56.6	57.3	57.6	57.1	53.9	49.0						
1600	48.4	49.9	52.1	53.4	54.7	55.7	56.2	56.3	56.7	52.9	47.9						
2000	49.3	50.0	52.5	54.8	55.9	56.2	56.6	56.7	56.8	53.0	46.7						
2500	46.8	48.3	49.8	52.3	53.9	53.9	54.3	53.7	54.8	49.9	44.7						
3150	45.5	47.5	49.8	51.6	53.7	55.2	53.8	54.2	55.2	49.8	43.5						
4000	45.8	47.6	49.6	53.0	55.0	55.5	57.1	59.6	61.7	53.3	44.2						
5000	44.2	48.3	48.9	52.0	54.0	56.0	58.1	59.4	59.8	52.6	43.0						
6300	45.0	47.5	50.4	52.7	54.8	58.5	61.0	62.0	63.7	54.0	41.9						
8000	43.8	47.0	48.6	52.8	55.4	58.4	61.4	63.4	63.6	53.5	40.6						
10000	40.7	44.6	47.9	51.5	53.9	56.2	60.2	61.0	59.6	47.7	34.2						
12500	40.1	44.5	48.6	52.9	55.9	58.4	61.2	60.8	59.0	46.8	30.6						
16000	35.8	40.4	46.0	50.6	53.6	55.2	57.3	58.2	55.8	39.7	21.2						
20000	29.4	38.3	42.2	46.0	49.7	52.4	53.8	53.4	49.3	33.9	10.0						
25000	19.0	29.3	31.5	35.9	40.2	43.0	45.0	43.8	84.7	21.6							
31500	4.5	13.2	18.1	24.6	28.6	31.2	32.1	30.9	23.0	1.2							
40000			1.2	7.0	11.3	13.6	13.7	9.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.5	64.9	66.5	68.3	69.4	70.6	72.0	72.7	72.0	68.8	66.5						
PNDB	72.8	74.3	76.4	78.8	80.4	81.8	83.4	84.2	83.2	79.0	76.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 12 HR. 12.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
80																		
63																		
84	76.6	77.4	77.5	80.0	78.0	77.2	76.5	75.5	78.8	81.1	85.4							115.0
100	69.2	71.7	72.3	72.5	73.0	74.8	74.3	74.0	78.5	82.6	87.8							112.8
125	75.8	76.8	76.8	79.6	77.1	77.3	78.3	80.3	81.1	83.2	87.5							114.1
160	74.9	75.5	75.5	76.3	76.8	79.0	78.3	79.8	82.3	84.1	87.2							114.1
200	73.7	73.3	73.6	75.1	76.9	79.1	79.8	81.4	82.9	85.4	88.5							115.1
250	78.5	78.8	80.6	80.8	91.6	82.1	83.6	84.8	85.6	86.4	88.0							117.6
315	78.8	78.3	78.6	79.4	79.9	80.1	80.8	81.4	83.1	84.7	86.5							115.6
400	77.2	77.5	78.8	77.8	78.5	79.0	80.2	81.5	82.5	83.9	85.7							114.7
500	74.6	75.1	75.2	76.7	77.9	78.7	80.4	81.9	83.2	84.0	85.3							114.5
630	75.2	75.3	76.6	78.3	79.1	80.8	82.8	83.6	84.1	83.9	84.5							115.4
800	75.8	75.8	76.4	78.1	78.6	80.1	81.3	82.2	83.4	83.2	83.3							114.6
1000	74.5	75.0	75.1	77.1	77.8	79.3	81.3	82.1	83.4	82.7	82.5							114.2
1250	74.3	74.3	75.1	76.7	77.4	79.4	80.8	81.7	83.7	82.3	81.8							114.0
1600	73.7	73.7	75.0	76.3	77.5	78.2	80.2	81.1	82.8	81.4	80.6							113.3
2000	74.3	74.6	75.8	77.4	78.6	78.8	80.0	81.4	82.9	82.3	80.5							114.8
2500	72.5	72.9	73.8	75.9	76.8	77.2	77.9	79.1	81.2	79.8	78.9							111.7
3150	71.8	72.3	73.3	75.2	76.9	78.9	78.2	79.7	80.7	79.6	78.7							112.3
4000	72.3	72.4	74.1	76.0	78.6	79.2	81.7	83.2	83.9	83.9	82.2							116.7
5000	71.1	72.9	73.3	75.2	78.1	80.2	82.7	85.2	87.8	83.8	79.4							116.3
6300	73.0	73.9	75.6	78.1	79.1	83.9	86.2	89.1	92.8	85.7	81.1							120.1
8000	72.9	74.9	76.2	78.8	81.8	84.2	88.8	91.8	94.3	86.8	81.8							121.9
10000	72.1	73.7	75.8	79.8	81.2	83.6	88.3	90.7	92.2	85.1	79.4							120.8
12500	74.2	75.8	78.9	81.9	85.2	88.5	91.7	93.9	94.3	87.4	81.5							124.0
16000	73.8	76.6	80.4	84.8	86.5	88.2	91.7	94.7	94.5	86.8	82.8							124.7
20000	74.3	77.5	81.6	85.3	87.4	90.2	93.8	96.2	96.6	89.9	82.8							126.9
25000	72.8	74.5	78.1	81.5	84.6	88.8	91.8	94.7	95.5	89.7	82.8							126.1
31500	70.8	73.6	75.7	80.8	82.4	86.1	89.6	92.9	93.3	87.8	79.4							124.9
40000	70.3	73.6	73.8	77.2	80.9	83.2	87.6	89.8	90.2	84.8	76.8							123.5
50000	68.3	69.0	68.8	71.2	73.9	77.6	81.4	82.6	83.3	79.8	70.8							118.8
63000	65.7	65.5	63.8	64.8	64.5	67.7	72.1	73.2	73.4	69.1	64.8							112.8
80000	67.9	67.9	65.4	64.4	64.2	64.9	65.2	64.6	64.6	62.9	63.9							112.2
OVERALL MEASURED																		
OVERALL CALCULATED	87.0	87.8	91.3	93.4	98.7	97.0	100.9	103.5	104.0	99.6	98.9							130.6
PNDB	90.9	99.3	100.5	102.6	103.9	105.9	106.8	110.4	110.2	109.1	107.4							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 12 HR. 12.3

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	.0. (0.)	.0. (0.)	.0. (0.)	.0. (0.)	.0. (0.)	.0. (0.)
50																	
63																	
SIDELINE 200. FT.	83	53.0	54.8	55.4	58.3	56.5	55.5	54.3	52.5	53.2	54.6	55.9					
(60.96 M)	100	45.5	49.0	50.2	50.8	51.4	52.9	52.0	51.7	54.1	56.1	56.9					
VEHICLE 75-4	125	51.2	54.0	54.6	53.8	55.4	55.5	56.8	57.2	56.6	56.5	57.3					
CONFIG NC-826	160	51.0	52.6	53.3	54.4	54.3	53.9	55.9	56.5	57.7	57.3	56.8					
LOC SCHENECTADY	200	49.8	50.3	51.3	53.2	55.1	57.1	57.4	58.0	58.1	58.5	57.9					
DATE 01-28-75	250	54.4	55.7	56.2	56.8	59.7	60.0	61.1	61.4	60.8	59.3	57.2					
RUN 676	315	54.6	55.1	56.1	57.3	59.9	58.0	58.2	58.1	58.2	57.4	55.5					
TAPE 3i	400	52.9	54.2	54.2	55.6	58.5	56.8	57.5	57.9	57.4	56.4	54.4					
BAR 30.0 MG	500	50.2	51.7	52.5	54.4	55.8	56.3	57.6	58.2	58.0	56.4	53.8					
(81272, N/M2)	630	50.7	51.8	53.0	56.0	56.0	58.2	59.1	59.8	58.7	56.2	52.7					
TAMB 47. DEG F	800	51.1	52.2	53.5	55.6	56.3	57.6	58.3	58.2	57.9	55.3	51.1					
(281. DEG K)	1000	49.6	51.3	52.0	54.5	55.3	56.7	58.1	58.0	57.7	54.5	50.0					
TWET 41. DEG F	1250	49.3	50.4	52.0	53.9	54.8	56.6	57.5	57.4	57.0	53.9	49.0					
(278. DEG K)	1600	48.4	49.6	51.6	53.4	54.7	55.2	56.7	56.6	56.7	52.7	47.6					
WACT 5.08 GM/M3	2000	48.0	50.3	52.3	54.3	55.6	55.7	56.3	56.7	56.6	53.3	46.7					
(.00500 KG/M3)	2500	46.8	48.8	50.1	52.6	53.7	53.9	54.1	54.2	54.5	49.7	44.7					
NFA 7845. RPM	3150	45.8	47.5	49.3	51.6	52.4	54.0	54.0	54.4	52.7	49.8	43.8					
(821. RAD/SEC)	4000	45.0	47.1	49.6	51.8	54.8	55.2	57.1	57.4	56.9	53.3	44.2					
NFK 7937. RPM	5000	44.2	46.3	48.6	51.5	54.1	56.2	57.8	58.6	59.8	52.6	42.8					
(831. RAD/SEC)	6300	45.2	47.5	50.2	53.2	54.3	56.5	60.5	62.2	63.9	53.5	42.6					
NFD 8823. RPM	8000	43.9	47.3	49.6	52.8	55.1	56.2	61.1	63.6	63.8	53.7	40.6					
(924. RAD/SEC)	10000	41.8	44.3	47.6	51.5	55.1	56.8	60.8	60.6	59.6	48.2	34.2					
NO. OF BLADES 19	12500	40.3	44.8	48.2	52.2	56.7	58.8	60.9	61.3	58.7	46.6	30.6					
FAN TIP SPEED	16000	39.3	43.6	46.8	50.6	55.3	54.7	57.1	57.9	53.8	38.7	21.7					
809. FT/SEC	20000	29.7	34.1	42.2	46.8	49.7	51.9	53.8	53.7	49.3	34.2	18.8					
	25000	19.5	24.3	31.5	36.4	40.8	42.7	44.7	44.8	38.7	21.9						
	31500	4.8	18.9	18.6	24.9	27.8	30.7	31.8	30.4	28.5	1.4						
	40000			1.8	7.8	11.9	12.8	13.7	9.7								
	50000																
	63000																
	80000																
OVERALL CALCULATED		63.5	65.3	66.9	68.3	69.4	70.9	71.0	72.1	71.8	68.8	66.6					
	PNDB	72.6	74.5	76.2	78.0	80.3	81.7	83.2	84.4	83.3	79.8	76.4					

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 3 DAY 28 HR. 12:3

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM., DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	OVRL
50																		
63																		
80	75.9	78.9	77.7	80.2	78.5	77.0	75.8	76.7	73.7	74.6	76.7							110.9
100	75.2	78.2	79.8	81.5	81.3	80.3	77.3	71.3	70.8	74.1	77.8							112.5
125	67.5	67.8	71.3	68.5	68.6	67.3	67.8	71.8	71.6	71.9	75.3							104.3
160	64.2	69.5	68.8	68.5	66.8	66.3	67.8	68.8	70.8	72.4	74.5							102.8
200	63.8	63.6	64.3	65.4	64.6	69.1	69.8	71.6	72.6	74.7	78.3							104.4
250	66.5	68.0	69.3	69.1	69.3	70.1	71.3	72.1	73.1	73.4	74.8							105.1
315	67.5	68.3	68.6	68.1	68.4	69.9	70.1	70.4	71.6	72.7	73.8							104.2
400	65.9	67.2	67.8	67.8	68.8	69.3	70.3	70.8	71.8	72.9	73.4							104.8
500	64.3	65.6	65.4	66.4	67.4	69.4	70.9	71.7	72.9	73.3	73.1							104.1
630	64.8	67.8	69.1	69.1	70.8	72.3	73.5	74.6	75.1	74.9	73.3							106.4
800	65.5	67.1	66.6	68.8	69.1	70.6	72.6	73.4	74.9	74.5	71.8							105.5
1000	63.5	65.5	65.9	66.8	68.1	70.9	72.8	73.6	75.4	75.2	71.8							105.7
1250	64.5	67.1	66.9	68.2	69.4	71.6	74.6	77.9	78.6	79.8	73.8							108.4
1600	63.2	66.9	65.5	67.8	68.7	70.5	72.4	73.6	74.1	74.7	70.6							105.1
2000	61.3	64.8	63.1	64.4	64.8	65.8	67.5	68.2	68.4	69.1	67.5							100.7
2500	61.7	65.3	63.8	65.4	67.6	69.8	68.9	67.8	68.7	67.8	64.4							101.4
3184	61.8	64.1	62.8	64.2	64.6	69.8	69.5	70.7	73.8	72.6	67.9							103.1
4000	62.6	67.4	64.8	66.8	68.8	70.5	72.7	76.2	80.2	84.4	73.7							108.1
5000	61.6	66.4	63.8	65.7	67.3	71.8	73.9	76.9	78.8	78.9	72.4							108.9
6368	63.8	68.7	66.4	67.6	69.8	73.2	76.4	79.8	82.6	81.8	73.6							110.9
8000	63.9	70.4	67.2	68.8	71.7	75.2	79.8	81.5	83.9	81.3	74.8							112.9
10000	64.1	71.4	71.6	75.3	78.7	80.6	83.1	84.7	85.7	81.8	75.4							115.5
12500	72.7	75.8	78.6	83.2	86.4	89.5	87.7	86.9	88.2	85.6	78.3							117.1
16000	65.3	71.9	73.6	75.8	78.5	81.8	84.2	86.9	87.8	81.7	75.8							117.0
20000	63.8	72.3	69.1	71.8	74.6	78.7	82.3	85.8	88.4	82.9	74.8							117.0
25000	61.3	72.5	69.1	66.3	70.9	75.2	78.6	82.4	84.8	80.7	71.5							114.5
31500	59.6	73.3	61.9	66.8	69.4	72.8	76.6	79.5	81.8	77.8	68.1							112.5
40000	60.1	71.4	61.8	63.7	67.6	71.8	73.9	76.6	79.8	75.5	66.2							110.9
50000	57.1	68.2	58.8	58.4	64.7	64.8	68.7	70.1	72.8	69.8	60.3							107.6
63000	56.5	64.9	54.6	53.7	55.5	57.2	60.4	61.2	62.8	59.8	54.8							103.1
80000	57.9	60.7	55.4	54.4	54.2	54.5	55.2	54.9	56.3	52.9	53.9							100.7
OVERALL MEASURED																		
OVERALL CALCULATED	82.8	88.4	85.3	86.3	90.9	92.2	92.6	95.3	98.9	92.9	88.3							120.7
PNDB	89.3	93.2	91.7	92.4	96.4	97.3	99.2	101.2	104.3	102.9	98.4							

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	EQ.	53. (0.92)	82. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	92.3	54.3	55.7	58.6	57.0	59.3	52.0	47.7	44.4	48.1	46.8						
(60.96 M)	100	91.5	53.5	57.7	59.8	58.7	58.5	53.0	48.2	46.4	47.6	46.9						
VEHICLE 75-S	125	43.7	45.8	49.1	46.3	46.9	45.9	45.5	48.4	47.1	45.2	45.8						
CONFIG NC-026	160	40.3	42.6	43.8	44.7	45.8	44.4	45.4	45.5	46.2	45.5	44.8						
LOC SC-ELECTADY	200	89.0	40.6	42.0	43.4	44.8	47.1	47.4	48.3	47.9	47.7	45.6						
DATE 01-26-79	250	42.4	45.0	46.9	47.1	47.5	48.8	48.8	48.7	48.3	46.3	43.9						
RUN 245.00	315	43.3	45.1	46.1	46.8	46.4	47.7	47.5	46.8	46.7	45.4	42.7						
TAPE 31	400	41.6	43.9	44.4	45.1	46.8	47.8	47.8	47.1	46.7	45.4	42.1						
BAR 30.0 HG	500	39.9	42.2	42.7	44.2	45.3	47.1	48.1	48.0	47.7	45.7	41.9						
(01272. N/M2)	630	41.5	43.9	45.3	46.7	48.6	49.9	50.6	50.8	49.7	47.2	41.4						
TAMB 47. DEG F	800	40.8	43.9	43.7	45.6	46.8	48.1	49.5	49.4	49.4	46.5	39.6						
(281. DEG K)	1000	38.6	41.8	42.9	44.2	45.6	48.2	49.6	49.5	49.7	47.8	38.5						
TWET 41. DEG F	1250	39.6	43.2	43.7	45.4	46.8	48.8	51.3	53.6	52.6	50.6	40.2						
(278. DEG K)	1600	37.9	41.9	42.1	44.1	46.8	47.5	48.9	49.1	48.8	45.9	37.6						
MACH 5.00 GM/M3	2000	35.8	40.5	39.5	41.3	41.9	42.7	43.8	43.4	43.1	40.8	33.7						
(.00500. KG/M3)	2500	36.1	40.8	40.1	42.1	44.4	45.7	45.1	42.9	42.8	38.4	32.2						
NFA 5502. RPM	3150	35.8	41.3	38.8	40.8	42.7	45.4	45.8	45.4	44.8	42.8	32.8						
(576. RAD/SEC)	4000	36.8	42.1	40.4	43.0	45.0	46.5	46.1	50.4	52.7	49.8	37.7						
NFK 5567. RPM	5000	36.7	42.8	39.8	41.7	43.3	46.7	49.1	51.9	50.8	47.9	35.8						
(583. RAD/SEC)	6300	36.8	43.3	40.9	42.7	45.1	48.3	50.8	53.0	53.7	48.7	35.1						
NFD 8823. RPM	8000	36.8	43.8	41.6	42.9	45.8	49.2	52.1	53.6	53.1	47.2	33.3						
(924. RAD/SEC)	10000	35.8	43.1	41.4	43.7	51.4	53.8	54.7	54.8	53.1	45.8	30.2						
NO. OF BLADES 18	12500	38.8	44.8	43.1	53.6	58.9	59.6	56.9	50.5	53.7	44.6	27.3						
FAN TIP SPEED	16000	36.8	39.8	36.2	41.8	45.3	48.8	49.6	49.6	44.3	34.4	14.7						
480. FT/SEC	20000	29.2	30.8	28.7	33.8	36.7	40.4	42.9	42.4	41.8	27.2	1.3						
	25000	0.0	23.3	17.5	21.2	24.2	30.8	31.5	31.8	27.9	12.9							
	31500		12.7	4.8	18.9	24.8	27.5	18.8	18.9	20.3								
	40000						8.6	0.2										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		57.8	59.6	61.7	64.8	66.3	69.1	64.9	64.7	64.7	60.4	55.2						
	PNOB	82.6	69.7	67.1	69.2	71.8	72.6	74.8	73.8	73.6	72.9	62.8						

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA [illegible]

PROG. DATE = MONTH 3 DAY 28 HR. 12.0

[illegible] SOUND PRESSURE LEVELS (REF. 0.0 DB PERCENT REL. NUM. DATA)
ACTUAL FREQUENCY IN DEGREES (AND RADIANS)

		53.	62.	71.	81.	91.	104.	111.	122.	133.	145.	159.	0.	0.	0.	0.	0.	0.	0.	PWL
	FREQ.	(0.93)	(1.08)	(1.24)	(1.41)	(1.59)	(1.82)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	
	SC																			
	53																			
RADIAL 17. FT.	60																			
S. HI	1??	71.5	73.2	74.2	77.7	78.8	79.9	71.8	67.3	78.2	73.3	78.4								107.9
VEHICLE	1??	67.2	68.4	71.4	77.2	77.9	67.4	67.8	71.5	77.8	77.9	74.7								104.9
CRUISE 79-5	1??	63.3	64.7	65.2	67.7	64.1	67.4	68.8	69.8	71.7	73.9	79.4								103.3
LOC SCHENECTADY	2??	64.2	64.2	65.4	66.5	68.8	69.1	69.3	71.2	72.7	74.8	76.4								104.2
DATE 1/29/75	2??	67.6	67.7	68.6	67.7	69.3	71.1	71.8	72.5	73.2	74.3	75.8								105.3
RUN 65/1	3??	68.7	68.2	69.7	70.2	71.1	71.2	71.3	71.8	72.7	73.9	74.7								105.3
TAPE	4??	67.8	67.7	67.8	68.8	69.1	70.4	70.8	72.0	72.5	73.8	74.2								104.8
BAR 29.2 MB	5??	65.1	66.3	66.7	67.8	69.1	70.9	71.8	73.3	73.7	73.8	73.9								105.8
(0154. 4/R2)	6??	67.6	68.2	69.2	71.3	72.8	74.5	75.3	75.8	76.8	76.1	74.4								107.7
TAMB 74. DEG F	7??	65.1	68.5	69.4	71.2	71.9	74.9	74.5	75.8	76.7	76.3	73.9								107.8
(295. DEG K)	1??	64.9	66.5	67.7	69.8	71.1	74.8	75.3	77.5	77.7	77.3	72.7								107.9
T-CT 17. DEG F	1??	69.1	68.5	71.7	77.5	74.5	77.8	78.5	81.5	82.8	83.6	76.9								112.4
(265. DEG K)	1??	62.9	64.3	65.7	67.4	68.2	70.5	71.8	73.5	74.8	74.8	70.2								104.7
MACT 0.53 G/M3	2??	61.6	62.3	63.8	65.7	66.7	68.8	70.8	71.7	72.2	72.3	68.9								102.8
(0.0053 KG/M3)	2??	64.2	67.3	67.8	68.9	71.2	74.8	75.2	77.4	74.7	71.3	68.4								107.1
NFA 5332. RPM	3??	63.1	64.7	66.3	67.2	73.8	74.2	75.8	77.1	75.8	70.8	67.1								107.8
(559. RAD/SEC)	4??	65.5	65.9	69.8	71.1	74.1	77.6	80.3	82.5	81.8	77.5	72.2								111.8
NFK 5529. RPM	5??	62.8	64.3	66.1	66.3	71.8	74.1	78.8	80.2	80.5	75.4	71.2								109.8
(579. RAD/SEC)	6??	64.1	65.8	66.8	68.8	73.3	76.5	79.1	81.7	82.2	76.8	73.4								111.5
NFC 6329. RPM	6??	63.4	65.1	67.2	68.5	72.1	75.5	78.3	81.8	82.8	78.4	73.4								111.8
(924. RAD/SEC)	11??	62.5	64.5	65.8	69.2	72.1	74.8	77.4	81.6	83.4	79.3	72.9								111.8
NO. OF BLADES 19	12??	63.3	63.8	65.9	68.2	72.3	75.7	77.6	81.3	82.7	78.2	72.8								111.5
FAN TIP SPEED	16??	61.4	62.9	65.8	68.3	71.9	75.3	77.1	80.8	82.4	77.5	72.1								111.3
464. FT/SEC	20??	61.5	63.1	65.3	70.5	73.1	74.8	78.7	81.5	82.5	78.8	73.3								112.8
	25??	59.8	61.5	62.9	64.3	71.1	74.8	78.1	78.8	80.3	74.2	69.1								110.8
	31??	59.7	60.3	62.6	69.8	73.7	75.5	76.6	78.6	79.7	75.3	67.3								111.8
	40??	55.9	57.2	58.3	64.8	67.7	71.3	72.7	74.8	74.8	71.8	61.3								108.7
	50??	55.3	55.1	54.7	58.1	61.2	65.2	66.7	66.9	66.2	66.5	58.1								104.2
	63??	54.9	55.1	55.4	54.8	54.3	58.9	59.6	59.4	60.4	58.4	53.1								100.8
	80??	54.7	61.3	55.4	53.6	53.4	54.4	54.8	54.4	54.1	53.3	51.8								102.8
OVERALL MEASURED																				
OVERALL CALCULATED		79.7	81.1	82.3	84.4	86.8	88.7	90.1	92.6	93.4	91.8	87.6								113.7
	PWL	95.4	91.8	93.6	95.4	97.4	100.5	102.3	104.8	104.3	101.8	97.8								

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PAGE 3 FULL SCALE (AT MEASURED ALTITUDE)

PREC. RATE - MONTH 3 DAY 28 HR. 12.0

(FULL P-2D PRESSURE LEVELS ISO. DEV. FR. 7C PERCENT REL. NUM. DAY)

SCALES FROM INLET TO HIGHER (AND MANIFOLD)

	FT.												
SITE LAT. 2600 FT.													
[60.86 %]	15%	47.7	50.5	52.1	52.6	54.5	54.2	49.6	44.2	45.9	46.7	46.4	
VEHICLE FMS	30%	41.5	47.8	49.1	49.5	51.2	49.4	45.5	43.4	47.4	45.3	44.4	
CRUISE 75-5	45%	40.1	41.7	42.9	43.9	43.1	46.5	46.4	44.5	47.1	44.9	44.9	
LTC SPHERICTATV	60%	43.9	41.2	43.1	44.5	45.0	47.2	46.8	47.9	48.6	47.1	45.7	
DATE 1/27/75	75%	43.9	43.6	45.3	45.7	47.4	48.1	46.6	48.1	48.3	47.2	44.4	
RUN 6741	315	44.3	44.0	47.2	47.1	48.1	49.0	49.7	48.2	47.7	46.5	43.6	
TAPE	400	45.7	44.8	45.3	47.8	47.0	47.2	48.1	48.4	47.4	45.8	42.8	
BAP 30.2 MB	500	45.7	47.5	48.3	47.5	46.9	47.4	49.6	49.5	48.5	46.2	42.4	
[31.83 IN. HG]	600	45.1	46.5	47.4	47.9	50.4	50.1	52.4	51.9	50.4	48.3	42.8	
TATM 24. DEG F	700	47.4	44.2	45.5	45.5	45.5	51.4	51.5	51.8	51.2	48.3	41.8	
[62%. DEG F]	1000	45.5	45.7	44.8	47.2	48.5	51.3	52.1	52.4	52.1	49.1	40.2	
TAT 17. DEG F	1200	44.1	45.5	45.5	51.3	50.5	54.2	55.2	57.2	56.1	55.2	44.1	
[62%. DEG F]	1400	37.7	39.3	42.3	44.5	45.4	47.6	47.5	45.6	47.9	46.1	34.9	
MACH 0.53 [M/M]	1600	36.7	39.7	43.4	47.8	48.7	45.8	46.3	47.0	46.9	43.3	35.2	
[0.00 IN. H2O]	1800	41.7	45.5	44.2	47.4	48.1	51.4	51.3	52.5	48.1	42.8	34.2	
NFA 523%. RPM	2100	37.8	39.9	42.3	47.6	47.5	50.6	51.7	51.9	48.9	41.5	32.2	
[59%. FPS/SEC]	2400	37.9	41.6	44.5	47.1	50.3	53.6	55.7	54.8	54.2	48.9	38.2	
NFF 552%. RPM	2700	35.3	38.9	41.4	47.1	47.9	51.8	53.1	54.1	52.4	44.4	34.5	
[57%. FPS/SEC]	3000	35.4	37.4	41.3	44.9	48.4	51.5	53.5	54.4	53.3	48.5	35.8	
NFT 664%. RPM	3300	34.2	37.5	41.6	43.4	46.3	50.4	51.5	53.6	52.5	45.2	32.1	
[824%. FPS/SEC]	3600	31.4	35.2	37.6	41.5	44.7	49.4	48.8	51.7	50.6	42.4	27.7	
NO. OF BLADES 18	3900	26.4	31.3	34.4	38.4	42.7	45.8	46.4	48.7	47.1	37.4	21.8	
FAN TIP SPEED	4200	22.9	28.8	30.6	35.5	38.7	41.7	42.4	43.1	41.7	30.2	12.8	
680. FT/SEC	4500	18.4	21.8	25.3	32.3	35.2	38.4	38.9	38.9	35.1	22.8		
	4800	5.4	12.4	18.3	27.2	28.5	29.6	28.9	24.2	23.5	8.3		
	5100		3.3	5.5	14.4	18.1	20.2	18.7	16.1	9.8			
	5400						8.9						
	5700												
	6000												
	6300												
	6600												
OVERALL CALCULATED		54.7	57.8	58.9	60.9	62.1	63.9	64.5	65.4	64.8	60.7	55.1	
	PNDR	63.9	66.5	69.0	71.5	73.7	76.6	77.8	78.8	78.9	71.3	62.5	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PREL. DATE = MONTH 3 DAY 28 HR. 12.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	57. (1.00)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	76.8	78.6	74.9	74.7	75.9	72.7	69.1	69.4	72.5	74.8	80.4							109.2
VEHICLE R-85	125	68.5	71.1	72.1	72.2	72.6	71.2	71.4	74.2	74.7	76.3	79.1							107.8
CONFIG 75-5	160	67.5	68.6	69.4	68.9	69.1	70.4	72.9	73.9	75.7	77.8	79.9							107.4
LOC SCHENECTADY	200	69.8	68.6	69.4	68.7	70.9	73.1	73.4	73.9	77.0	79.6	81.1							108.8
DATE 1/23/75	250	71.0	71.4	72.4	72.4	72.6	73.4	74.9	75.4	76.0	78.3	79.1							108.7
RUN 65/2	315	72.1	72.6	73.1	73.7	73.1	74.4	74.9	75.9	76.2	78.3	78.9							109.1
TAPE	400	70.3	70.9	71.2	71.9	71.9	73.4	74.4	75.4	76.2	77.6	77.9							108.2
BAR 30.2 HG	500	68.6	69.2	69.7	70.7	71.9	74.0	75.1	75.9	76.7	77.6	77.4							108.2
(01983. N/M2)	630	71.2	70.9	72.4	74.2	75.7	77.0	78.6	78.4	79.0	79.4	77.9							110.7
TAMB 25. DEG F	800	70.7	71.7	72.7	73.5	74.7	76.7	77.6	78.4	79.3	79.4	76.6							110.4
(269. DEG K)	1000	68.7	69.9	70.7	72.7	74.2	76.5	77.9	79.4	80.5	80.1	78.9							110.7
TAET 16. DEG F	1250	69.0	69.0	70.4	72.3	73.7	74.0	77.4	78.7	80.0	80.7	78.7							110.6
(265. DEG K)	1600	67.7	69.0	70.4	71.3	72.5	75.0	77.1	80.2	81.3	80.7	78.4							110.7
HACT 0.65 GM/M3	2000	66.0	67.0	67.7	69.1	70.3	71.5	73.9	74.4	74.5	75.2	72.4							106.1
(.0006S KG/M3)	2500	66.7	67.5	69.6	70.6	72.8	74.8	76.1	75.6	74.8	73.4	71.4							107.3
NFA 6110. RPM	3150	69.7	71.2	74.1	75.6	77.8	81.8	82.8	81.8	79.7	75.9	73.3							113.0
(640. RAD/SEC)	4000	67.1	69.1	71.0	73.4	75.9	79.9	83.2	83.7	82.9	77.6	74.0							113.5
NFK 6321. RPM	5000	67.2	68.2	70.4	72.5	75.5	80.3	84.4	86.4	83.5	78.7	74.4							114.9
(662. RAD/SEC)	6300	67.7	69.1	70.8	73.5	75.9	80.3	84.0	85.4	85.7	81.1	75.9							115.2
NFC 6923. RPM	8000	67.5	69.1	71.2	73.9	75.8	80.8	82.5	85.5	86.0	82.2	76.4							115.4
(724. RAD/SEC)	10000	66.4	68.3	70.1	73.6	76.7	80.6	82.4	85.3	87.0	82.1	75.7							115.6
NO. OF BLADES 15	12500	67.4	68.5	70.0	73.2	76.6	79.4	82.5	86.2	86.5	82.0	76.0							115.9
FAN TIP SPEED	16000	64.8	66.1	69.0	71.8	75.5	78.6	81.7	84.2	85.5	80.8	75.1							114.9
533. FT/SEC	20000	64.9	66.6	68.8	73.8	76.7	80.1	82.5	85.7	87.8	81.7	75.3							116.9
	25000	63.9	65.6	68.2	72.9	75.5	78.2	80.7	83.3	84.6	79.3	72.8							115.1
	31500	63.2	65.4	68.2	73.6	76.3	79.6	81.7	83.1	83.0	78.5	70.8							115.9
	40000	61.3	62.3	65.6	69.3	72.4	75.6	77.3	78.7	79.3	75.3	65.6							113.2
	50000	61.7	61.4	62.5	64.2	66.3	69.8	71.9	71.6	72.5	69.7	61.1							109.8
	63000	61.4	61.1	62.8	61.9	62.4	64.7	65.6	64.6	65.0	63.8	59.4							108.5
	80000	66.4	62.8	65.3	62.4	62.5	63.8	63.9	63.1	62.0	62.7	61.4							110.4
OVERALL MEASURED																			
OVERALL CALCULATED		83.6	84.2	85.3	87.2	89.1	92.0	94.3	96.2	96.7	93.7	91.0							117.3
	PNLB	94.2	95.4	97.4	99.0	100.8	104.0	106.0	107.4	106.8	104.1	100.7							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE - MONTH 3 DAY 28 HR. 12.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLE FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	65. (1.13)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	53.1	52.9	52.8	55.0	54.3	50.9	46.9	46.3	48.0	50.0	50.3						
125	44.3	48.3	50.0	50.4	52.7	49.3	49.1	51.0	50.2	49.7	48.9						
160	44.7	45.7	47.2	47.1	47.4	49.5	50.5	50.7	51.1	51.8	49.4						
200	44.8	45.6	47.1	47.7	49.1	51.2	51.2	52.6	52.9	52.6	50.4						
250	47.0	48.3	50.0	50.4	50.7	51.4	52.3	52.0	51.1	51.2	48.2						
315	47.9	49.5	50.7	51.4	51.2	52.3	52.2	52.4	51.3	51.1	47.8						
400	44.1	47.6	48.6	49.4	49.8	51.2	51.7	51.8	51.1	50.2	46.5						
500	44.2	45.8	47.0	48.4	49.8	51.6	52.3	52.2	51.5	50.0	45.8						
630	46.6	47.4	49.6	51.9	53.4	54.6	55.7	54.6	53.6	51.8	46.1						
800	45.0	48.1	49.8	51.9	52.3	54.2	54.6	54.4	53.7	51.4	44.5						
1000	43.9	46.2	47.6	50.1	51.7	53.4	54.7	55.3	54.8	51.9	43.4						
1250	43.0	45.1	47.3	48.5	51.1	53.2	54.1	54.4	54.1	52.2	42.8						
1600	42.3	44.9	47.1	48.4	49.7	52.1	53.6	55.7	55.2	52.0	41.1						
2000	40.5	42.7	44.1	46.0	47.3	49.4	50.2	49.7	48.2	46.1	38.6						
2500	41.3	43.0	45.9	47.4	49.7	51.5	52.2	50.7	48.1	44.1	37.2						
3150	43.6	46.4	50.1	52.1	54.4	56.2	56.6	56.6	52.7	46.0	36.4						
4000	40.5	43.8	46.5	48.6	52.1	55.2	56.5	56.9	55.3	47.0	36.0						
5000	40.4	42.8	45.7	48.7	51.6	56.1	59.7	60.3	55.6	47.7	37.8						
6300	40.8	42.7	45.3	47.7	51.2	55.3	58.4	58.5	56.8	48.9	37.4						
8000	38.3	41.3	44.4	47.9	49.9	54.7	56.1	57.3	56.6	48.0	35.1						
10000	35.3	38.8	41.9	46.1	49.3	52.4	54.1	55.4	54.4	45.2	30.5						
12500	33.5	36.6	39.4	43.4	47.1	49.8	51.7	53.6	50.9	41.2	25.0						
16000	26.3	33.1	33.7	38.4	42.4	45.0	47.0	47.3	44.8	33.6	14.8						
20000	20.3	25.1	29.4	35.6	38.8	41.7	42.7	43.1	40.4	26.0	2.5						
25000	10.6	16.4	21.6	27.7	30.9	32.9	33.6	32.6	27.8	11.5							
31500		4.8	11.1	18.5	21.7	24.2	23.9	20.6	12.3								
40000					3.1	5.2	3.6										
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.5	59.9	61.5	63.3	64.6	66.8	68.2	68.4	66.7	63.3	56.8						
PNDB	68.0	70.4	73.2	75.3	77.3	80.3	81.4	81.7	79.0	73.4	65.7						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROC. DATE - MONTH 3 DAY 28 HR. 12.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	56. (0.98)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	131. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.3	75.1	74.1	73.4	75.9	74.7	74.6	73.7	76.7	80.8	84.1							110.7
VEHICLE R-55	125	71.9	79.1	77.4	76.7	79.2	77.2	77.6	77.9	79.0	80.6	82.9							112.6
CONFIG 75-5	160	71.3	71.4	72.1	72.7	71.9	73.4	75.9	76.9	79.5	81.9	83.9							111.8
LOC SCHENECTADY	200	71.3	71.6	71.9	72.9	73.5	74.1	76.9	78.4	79.7	82.3	84.3							111.7
DATE 1/23/75	250	73.8	74.6	75.5	76.2	76.1	77.4	78.6	79.1	80.0	82.5	83.6							112.4
RUN 65/3	315	75.7	76.1	76.6	77.2	75.6	77.9	77.9	78.7	80.0	81.8	82.6							112.5
TAPE	400	73.3	74.4	74.4	75.2	75.1	77.2	77.4	78.2	79.0	81.1	82.1							111.5
BAR 30.2 HG	500	71.6	72.2	72.4	73.7	74.7	77.0	77.9	79.2	79.7	81.1	80.9							111.3
(31983. N/M2)	630	73.4	73.4	74.4	77.0	77.7	79.7	80.9	81.7	81.5	81.9	80.6							113.3
TAMB 25. DEG F	800	74.2	74.7	74.9	76.7	77.2	79.2	80.6	81.2	81.2	81.6	80.4							113.2
(265. DEG K)	1000	71.4	72.7	73.4	75.3	76.7	78.7	80.4	80.6	82.5	81.9	79.4							112.5
TACT 18. DEG F	1250	71.0	72.2	72.7	74.6	76.2	78.0	79.6	80.7	81.3	81.7	78.7							112.2
(265. DEG K)	1600	70.5	71.2	72.2	73.7	74.5	76.5	77.6	78.7	78.8	78.9	76.7							110.3
HACT 0.65 GM/M3	2000	69.7	70.2	70.7	72.1	73.5	75.5	76.9	77.4	78.3	77.9	75.9							109.4
(.00065 KG/M3)	2500	69.2	71.0	71.6	74.1	75.9	77.5	78.1	77.4	77.5	75.9	75.1							109.8
NFA 6871. RPM	3150	72.2	72.2	74.1	76.4	79.8	83.8	85.5	84.3	82.7	76.9	75.6							113.3
(719. RAD/SEC)	4000	70.8	72.6	74.2	77.1	80.2	83.9	86.2	85.5	85.1	78.8	76.5							116.3
NFK 7104. RPM	5000	69.5	71.3	72.9	75.5	79.1	83.1	85.1	86.4	84.8	79.7	76.6							115.8
(744. RAD/SEC)	6300	70.5	72.3	73.8	77.3	79.7	84.3	86.8	87.1	88.7	82.9	78.4							117.9
NFD 8823. RPM	8000	71.0	73.1	74.5	77.9	80.8	84.6	87.4	88.5	89.2	84.0	78.9							118.8
(924. RAD/SEC)	10000	69.9	71.8	73.8	77.9	80.2	83.8	86.1	88.1	88.5	83.9	77.9							118.8
NO. OF BLADES 15	12500	69.9	71.8	73.5	76.9	80.9	83.7	86.0	89.2	89.5	83.8	77.7							119.0
FAN TIP SPEED	16000	68.1	73.1	72.3	75.8	79.3	82.1	84.5	87.7	88.5	82.6	77.4							118.0
800. FT/SEC	20000	68.4	70.1	73.1	76.8	80.5	83.6	85.8	88.2	90.3	84.0	77.5							119.7
	25000	65.9	69.3	72.2	75.6	79.3	82.4	84.4	86.8	88.4	82.1	75.6							118.0
	31500	66.2	69.4	72.4	77.6	80.8	83.8	84.7	86.3	87.0	81.5	74.0							119.5
	40000	63.3	65.0	69.2	73.1	76.6	79.4	80.8	82.2	82.3	77.5	68.3							116.6
	50000	62.7	61.9	64.8	67.4	73.6	73.5	75.9	75.3	76.0	72.7	63.1							112.8
	63000	61.6	60.9	62.8	62.6	64.7	67.0	68.1	67.6	68.0	66.0	59.9							108.5
	80000	66.4	64.6	65.3	62.4	62.5	63.8	63.9	63.1	62.2	62.7	61.4							110.5
OVERALL MEASURED																			
OVERALL CALCULATED		85.4	87.3	88.1	90.2	92.6	95.4	97.3	98.7	99.4	98.9	94.4							120.2
	PNDB	96.3	98.0	99.1	101.4	103.7	106.8	108.7	108.8	109.4	108.8	105.8							

NOISE SOURCE PRESSURE LEVELS (SPL, DB, RE 20 MICRONEWTONS/SQ M)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 200. FT. 80																	
(60.96 M) 100	43.6	52.4	52.1	51.7	54.7	52.9	52.4	50.6	52.3	54.3	54.1						
VEHICLE R-55 125	47.3	56.3	55.2	54.9	54.2	55.3	55.3	54.8	54.5	53.9	52.6						
CONFIG 75-5 160	47.4	48.5	49.9	50.9	51.2	51.5	53.5	53.7	54.8	55.0	53.4						
LOC SECRETARY 200	47.3	45.6	49.6	51.0	51.8	54.2	54.4	55.1	55.0	55.4	53.7						
DATE 1/23/75 250	49.7	51.6	53.2	54.2	54.2	55.4	56.1	55.7	55.1	55.5	52.7						
RUN 65/3 315	51.1	53.0	54.2	55.1	54.7	55.4	55.2	55.1	55.0	54.6	51.5						
TAPE 400	49.1	51.1	51.4	53.0	53.1	55.0	54.7	54.5	53.9	53.7	50.8						
BAR 30.2 HG 500	47.2	48.8	49.7	51.4	52.5	54.6	55.1	55.4	54.5	53.5	49.3						
(01983. N/M2) 630	49.9	49.9	51.6	54.6	55.4	57.3	58.0	57.8	56.1	54.1	48.8						
TAMB 25. DEG F 800	49.5	51.1	52.0	54.3	55.3	56.7	57.6	57.2	56.2	53.7	48.3						
(269. DEG K) 1000	45.6	48.9	50.4	52.4	54.2	56.1	57.2	56.8	56.8	53.7	46.9						
TACT 16. DEG F 1250	46.0	48.3	49.5	51.8	53.6	55.2	56.3	56.4	55.4	53.2	45.8						
(265. DEG K) 1600	44.3	47.1	48.8	50.4	51.7	53.8	54.1	54.2	52.7	50.2	43.4						
WACT 0.05 GM/M3 2000	44.3	45.9	47.1	49.0	50.8	52.4	53.2	52.7	51.0	48.9	42.1						
(.00005 KG/M3) 2500	44.5	46.5	47.9	50.9	52.7	54.2	54.2	52.5	50.9	46.6	40.9						
NFA 6871. RPM 3150	44.9	47.4	50.1	52.8	54.4	56.2	61.3	59.1	55.7	47.0	40.7						
(719. RAD/SEC) 4000	44.3	47.3	49.4	53.1	56.4	59.9	61.5	59.7	57.5	48.2	40.5						
NFK 7168. RPM 5000	42.6	45.8	48.2	51.6	55.1	58.8	60.2	60.3	56.1	48.7	40.0						
(744. RAD/SEC) 6300	42.7	45.9	48.3	52.4	54.9	59.3	61.1	60.2	59.8	50.6	39.9						
NFD 8823. RPM 8000	41.8	45.5	47.9	51.2	54.9	58.5	60.6	60.3	58.8	49.8	37.6						
(924. RAD/SEC) 10000	38.8	42.4	45.8	50.3	52.8	56.1	57.6	58.1	56.9	47.8	32.7						
NO. OF BLADES 15 12500	36.8	39.9	42.9	47.2	51.3	53.9	55.2	56.6	53.9	43.0	26.8						
FAN TIP SPEED 16000	29.5	34.1	37.9	42.4	46.1	48.5	49.8	50.8	47.8	35.3	17.0						
600. FT/SEC 20000	23.8	28.6	33.7	38.6	42.6	45.2	46.0	45.6	42.9	28.2	4.8						
25000	13.6	20.1	25.6	31.5	34.6	37.2	37.3	36.1	31.6	14.2							
31500	3.1	8.8	15.3	22.5	26.2	28.5	26.9	23.8	16.3								
40000				2.9	7.3	9.0	7.1	2.1									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.0	63.1	64.1	65.9	67.6	69.9	71.0	70.6	69.2	66.9	62.4						
PNDB	70.2	72.9	74.9	77.6	80.1	83.0	84.2	83.1	81.5	78.4	68.7						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE - MONTH 3 DAY 28 HR. 12.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
80																		
100	69.0	71.9	73.1	73.2	73.5	74.9	74.8	75.4	79.2	84.3	87.6							112.7
125	73.3	74.4	75.1	75.9	77.9	77.2	78.1	78.9	81.8	83.8	87.4							114.3
160	74.5	74.8	75.1	75.7	75.4	76.9	79.1	80.7	82.2	85.3	87.4							114.3
200	74.0	73.4	74.4	75.4	76.4	76.9	79.6	81.4	83.0	86.3	88.1							115.1
250	73.8	74.9	76.1	80.7	80.6	81.9	83.8	84.4	85.0	86.8	87.8							117.2
315	78.3	78.6	79.6	79.9	79.6	80.7	81.6	82.2	83.0	85.6	87.1							115.9
400	76.8	77.1	77.7	78.7	78.4	79.9	80.4	81.7	82.2	84.9	85.9							114.9
500	74.1	74.7	75.4	76.2	77.2	79.7	80.0	81.9	83.0	84.6	84.9							114.4
630	75.4	76.2	77.7	79.2	80.2	82.2	83.4	83.9	84.5	84.9	84.6							116.1
800	76.9	76.9	77.9	77.2	80.7	82.0	83.1	84.2	84.0	84.6	83.9							116.0
1000	74.7	75.4	76.7	78.8	78.9	81.0	82.6	83.7	84.7	84.4	82.6							115.4
1250	74.5	74.7	75.9	77.8	79.0	80.6	82.1	82.9	84.3	83.7	81.9							114.9
1600	73.0	73.5	74.7	75.6	76.8	78.3	79.6	80.4	81.0	80.9	80.2							112.4
2000	73.5	74.2	74.9	74.1	78.0	79.8	81.4	82.9	83.3	82.4	80.4							114.8
2500	72.4	73.2	74.9	76.9	78.5	79.5	80.3	79.6	80.8	79.7	78.6							112.5
3150	72.2	73.7	75.1	77.6	80.3	82.3	83.0	83.6	81.7	79.1	77.6							114.4
4000	74.6	75.9	78.0	81.3	83.9	87.9	90.2	89.7	88.6	82.6	81.0							120.2
5000	72.2	73.6	75.7	78.9	81.6	86.3	87.1	88.1	85.5	81.7	79.1							118.0
6300	73.2	74.4	77.3	80.1	82.9	88.0	88.5	91.1	90.7	84.4	80.4							120.7
8000	73.0	75.3	78.0	81.2	83.3	88.1	89.9	91.7	92.2	86.7	81.4							121.7
10000	72.6	75.0	77.6	81.1	83.7	87.3	90.6	91.3	92.2	85.9	83.7							121.9
12500	73.1	74.3	77.0	80.7	84.1	87.2	89.7	92.5	92.2	89.9	84.7							122.2
16000	70.6	73.1	75.5	79.9	82.8	85.3	87.7	91.0	90.5	85.1	89.4							121.3
20000	71.1	73.6	76.8	80.8	83.7	87.1	89.5	92.2	92.3	86.2	81.8							122.6
25000	70.4	73.1	76.2	81.1	83.5	86.2	88.7	91.8	91.4	85.8	79.6							122.8
31500	69.2	72.7	76.9	81.4	83.6	87.1	88.7	90.6	90.3	84.5	78.5							123.1
40000	66.0	68.7	72.5	76.8	79.6	82.9	85.1	85.7	85.8	81.0	74.6							120.2
50000	64.0	63.9	67.0	70.9	73.8	77.0	79.6	79.3	79.5	75.9	67.3							110.1
63000	63.9	61.4	63.8	64.3	67.2	70.9	71.8	71.4	71.0	68.0	62.4							111.4
80000	66.4	65.1	65.3	62.4	62.5	64.3	64.9	64.1	63.7	63.5	62.1							115.0
OVERALL MEASURED																		
OVERALL CALCULATED	88.6	89.5	91.1	93.4	95.4	98.5	100.4	102.1	102.1	98.8	98.8							123.3
PNDB	99.8	100.7	102.3	104.8	106.8	110.0	111.7	112.1	111.8	108.9	107.4							

RADIAL 17. FT. (5. IN)
VEHICLE R-55
CONFIG 75-5
LEC SCHENECTADY
DATE 1/23/75
RUN 6574
TAPE
BAR 30.2 IN HG (1019.3 MB)
TAMB 25. DEG F (269. DEG K)
TWET 18. DEG F (265. DEG K)
WACT 0.65 GM/M3 (0.00065 KG/M3)
NFA 7635. RPM (799. RAD/SEC)
NFK 7898. RPM (827. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 667. FT/SEC

PAGE 3 FULL SCALE DATA SUMMARY PROGRAM

PROG. DATE = MONTH 3 DAY 28 HR. 12.8

FULL SCALE ENGINEERING LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO DEGREES (AND RADIANS)

	FREQ	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	94. (1.64)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	159. (2.73)	0. 0. 0. 0. 0. 0. 0.
	50												
	53												
SITELINE 200. FT.	60												
(60.96 M)	100	45.4	47.2	48.1	51.6	52.0	53.2	52.4	52.3	54.8	57.8	57.6	
VEHICLE BUS	125	51.5	55.5	56.0	56.2	56.2	55.3	55.8	56.8	56.5	57.2	57.1	
CONFIG 75-6	160	50.7	51.7	52.9	53.8	53.7	55.0	56.8	57.4	57.8	54.5	56.9	
LOC SCHENECTADY	200	51.1	50.4	52.1	53.5	54.6	56.2	57.2	58.1	58.2	59.4	57.4	
DATE 1/23/75	250	54.7	55.8	57.7	58.7	58.7	59.9	61.1	61.0	60.1	59.7	57.8	
RUN 65/4	315	54.1	55.3	57.2	57.9	57.7	58.5	58.0	58.6	58.8	58.3	56.0	
TAPE	400	52.6	53.9	55.1	56.5	56.3	57.7	57.7	58.0	57.1	57.4	54.5	
BAR 30.2 HG	500	49.7	51.3	52.7	53.9	55.0	57.4	58.1	58.2	57.8	57.0	53.3	
(102393. N/M2)	630	51.9	52.7	54.9	56.9	57.9	59.8	60.5	60.1	59.1	57.1	52.8	
TAMB 25. DEG F	800	52.2	53.3	55.0	56.5	58.3	59.5	60.1	60.2	58.5	56.7	51.8	
(269. DEG K)	1000	48.6	51.9	53.6	55.4	56.5	58.3	59.5	59.5	59.1	56.2	50.2	
TRET 18. DEG F	1250	49.5	50.8	52.8	54.1	56.4	58.0	58.8	58.6	58.4	55.2	49.1	
(265. DEG K)	1600	47.8	49.4	51.3	52.7	54.9	56.3	56.1	55.9	54.9	52.2	46.9	
HACT 0.65 GM/M3	2000	48.0	49.7	51.4	53.9	55.1	56.6	57.7	58.2	56.9	53.4	46.6	
1.00065 KG/M3)	2500	46.5	48.7	51.2	53.5	55.4	56.2	56.4	56.7	54.1	50.3	44.4	
NFA 7635. RPM	3150	46.1	48.9	51.1	54.1	56.9	58.7	58.8	58.3	54.7	49.3	42.7	
(799. RAD/SEC)	4000	48.0	50.6	53.5	57.4	60.1	63.9	65.5	64.0	61.8	52.9	45.0	
NFV 7898. RPM	5000	45.4	48.3	51.0	54.6	57.6	62.1	62.2	62.1	57.6	50.7	42.6	
(827. RAD/SEC)	6300	45.5	48.4	51.8	55.4	58.2	63.0	62.9	64.2	61.8	52.1	41.9	
NFD 8823. RPM	8000	43.8	48.2	51.4	55.2	57.4	62.0	63.1	63.6	61.8	51.5	40.1	
(924. RAD/SEC)	10000	41.5	45.7	49.4	53.6	56.3	59.6	62.1	61.4	59.7	49.0	38.5	
NO. OF BLADES 15	12500	39.2	43.4	46.4	50.9	54.6	57.4	58.9	59.9	56.6	46.0	33.8	
FAN TIP SPEED	16000	32.8	37.1	41.2	45.6	49.6	51.8	53.0	54.1	49.8	37.8	29.0	
667. FT/SEC	20000	26.5	32.1	37.4	42.6	45.8	46.7	49.7	49.6	44.9	30.5	9.0	
	25000	17.1	23.9	29.6	36.0	38.9	40.9	41.6	41.1	34.6	17.7		
	31500	3.1	12.1	19.8	26.2	29.0	31.7	30.9	28.1	19.5			
	40000				6.7	10.3	12.5	11.3	5.6				
	50000												
	63000												
	80000												
OVERALL CALCULATED		63.3	65.6	66.9	68.7	70.2	72.7	73.6	73.5	71.9	69.2	66.3	
PNDB		73.3	75.6	76.1	81.0	83.1	86.1	87.2	86.5	84.3	78.6	72.8	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 28 HR. 12.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	63. (1.10)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0.)	0.	0.	0.	0.	0.	PWL
	FREQ.																			
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. IN)	100	76.8	77.4	77.4	77.2	73.5	74.7	74.6	75.4	78.7	83.8	87.9								112.7
VEHICLE R=65	125	75.3	77.9	77.9	77.2	77.5	74.4	77.8	79.9	81.0	84.1	86.9								114.0
CONFIG 75=5	160	75.3	74.4	74.9	75.7	75.5	75.4	76.1	79.9	82.2	85.6	87.6								114.4
LOC SC=DIRECTORY	200	75.5	73.4	74.6	75.7	75.3	79.1	79.9	81.9	83.0	86.3	88.3								115.3
DATE 1/23/75	250	73.5	73.3	73.9	90.7	83.3	81.5	82.9	83.9	84.7	87.1	88.1								117.1
RUN 65/5	315	73.8	73.9	73.6	90.2	73.9	80.9	81.6	81.9	83.0	85.6	86.4								115.8
TAPE	400	77.1	77.4	77.2	78.2	78.9	79.7	81.1	81.7	82.5	84.9	86.1								115.0
BAR 30.2 HG	500	74.6	74.9	75.4	74.2	77.4	79.7	80.9	82.2	83.2	84.6	84.6								114.5
(1019.3 MB)	630	75.2	75.9	77.4	79.2	81.2	82.0	83.4	84.2	84.0	84.9	84.9								116.0
TAMB 25. DEG F	800	76.9	77.2	77.7	79.5	87.2	82.2	83.1	83.9	84.5	84.8	83.9								116.0
(269. DEG K)	1000	74.7	75.7	76.4	78.5	79.3	81.0	82.6	83.7	84.5	84.4	82.9								115.4
TDET 16. DEG F	1250	74.2	74.5	74.2	77.3	79.2	81.0	81.9	83.2	84.3	83.9	82.9								115.0
(265. DEG K)	1600	73.2	73.7	74.4	75.3	77.0	78.5	79.9	80.2	81.3	80.9	80.7								112.5
HAPT 0.65 GM/M3	2000	73.2	74.0	74.9	76.4	77.3	79.5	81.4	82.7	83.3	81.9	80.8								113.9
(.00065 KG/M3)	2500	72.4	73.5	74.9	77.4	78.3	80.0	80.1	79.4	80.8	79.7	79.4								112.6
NFA 783. RPM	3150	72.9	73.5	75.3	77.9	79.8	82.5	83.3	83.3	82.0	78.9	83.3								114.8
(799. RAD/SEC)	4000	74.3	76.4	77.7	81.7	83.9	87.7	90.2	90.2	88.4	83.1	81.5								120.3
NFK 7593. RPM	5000	72.5	73.8	76.2	79.3	81.7	85.3	87.8	87.9	86.0	82.2	80.9								118.1
(826. RAD/SEC)	6300	73.7	74.8	77.5	80.7	83.2	88.0	88.5	91.1	91.0	84.6	80.9								120.8
NFD 8523. RPM	8000	74.0	75.6	77.7	81.9	84.9	87.6	89.7	91.7	92.5	88.0	81.4								121.8
(924. RAD/SEC)	10000	72.9	75.0	77.8	80.2	83.9	87.0	90.1	91.1	92.2	85.9	81.4								121.6
NO. OF BLADES 15	12500	73.4	74.5	77.2	81.2	84.1	86.9	90.0	92.5	92.2	86.5	80.7								122.2
FAN TIP SPEED	16000	71.1	73.1	76.0	79.5	82.3	85.6	88.7	90.7	91.0	85.3	80.6								121.2
666. FT/SEC	20000	71.6	73.6	76.8	81.3	84.0	86.6	89.8	92.2	92.8	86.5	81.5								123.0
	25000	72.9	72.6	75.7	80.3	83.3	86.4	89.2	91.3	92.1	86.1	79.6								123.0
	31500	73.4	73.2	77.2	81.5	84.1	87.3	88.7	90.1	90.3	84.7	77.5								123.1
	40000	66.3	68.7	73.5	77.8	79.6	82.9	85.6	86.5	86.6	81.0	71.3								120.6
	50000	64.0	64.2	68.5	71.4	73.8	76.6	78.4	79.8	79.5	76.2	70.8								116.2
	63000	61.1	62.1	64.5	65.1	66.9	70.2	72.1	71.4	71.6	68.6	63.2								111.6
	80000	66.4	63.6	65.3	62.9	63.0	64.3	65.2	64.6	64.2	63.7	61.9								111.1
OVERALL MEASURED		88.9	89.6	91.1	93.6	95.5	98.4	100.5	102.0	102.3	99.0	90.3								133.3
OVERALL CALCULATED		99.7	100.9	102.2	104.9	106.8	109.8	111.7	112.3	111.9	108.7	100.8								

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE TAF... PROPELLER FAMILY

PROG. DATE = MONTH 3 DAY 28 HR. 12.1

1/3 OCTAVE SOUND PRESSURE LEVELS (DB, RE: 20 MICRO NEWTONS/SQ M) VS. FREQUENCY AND ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-5
LOC SCHENECTADY
DATE 1/23/75
RUN 65/5
TAPE
BAR 30.2 IN HG (0.01983. M/M2)
TAMB 25. DEG F (269. DEG K)
TDFT 18. DEG F (265. DEG K)
HACT 0.63 GM/M3 (0.00055 KG/M3)
NFA 7630. RPM (799. RAD/SEC)
NFK 7893. RPM (826. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 666. FT/SEC

FREQ	53. (.92)	68. (1.19)	74. (1.29)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	169. (2.73)	0. (0.)	0. (110.)	0. (110.)	0. (110.)	0. (110.)	0. (110.)	0. (110.)
50																		
63																		
80																		
100	47.1	49.7	51.3	51.5	52.0	52.0	52.4	52.3	54.3	57.3	57.8							
125	50.0	55.1	55.7	55.4	56.0	54.6	55.3	56.8	56.5	57.4	56.6							
160	51.4	51.5	52.7	53.9	53.7	54.5	56.8	56.7	57.6	58.8	57.1							
200	51.8	52.4	52.3	53.7	53.1	57.4	57.4	58.6	58.2	58.4	57.7							
250	55.3	55.6	57.5	58.7	59.3	59.5	60.3	60.5	59.9	60.0	57.2							
315	54.6	55.7	57.2	58.1	57.9	58.8	59.0	58.4	58.0	58.3	55.3							
400	52.8	54.1	54.6	56.9	56.8	57.5	58.4	58.0	57.4	57.4	54.8							
500	52.2	51.5	52.7	53.7	55.3	57.4	58.1	58.4	58.0	57.0	53.1							
630	51.6	52.4	54.6	56.9	57.9	59.5	60.5	60.3	58.6	57.1	53.1							
800	52.2	53.6	54.5	57.0	57.8	58.7	60.1	59.9	59.0	56.7	51.8							
1000	49.9	51.9	53.4	55.9	56.7	58.3	59.5	59.5	58.8	54.2	50.4							
1250	49.2	50.6	53.0	54.5	55.5	58.2	58.6	58.9	58.4	55.5	50.1							
1600	48.0	49.6	51.1	52.4	54.2	55.8	56.4	55.7	55.2	52.2	47.4							
2000	47.8	49.7	51.4	52.3	54.3	56.4	57.7	57.9	56.9	52.9	46.9							
2500	46.8	49.0	51.2	54.1	55.2	56.7	56.2	54.5	54.1	50.3	45.2							
3150	46.9	49.6	51.3	54.3	56.4	58.9	59.1	58.1	55.0	49.0	44.4							
4000	47.8	51.1	53.3	57.4	59.1	63.7	65.5	64.5	60.8	52.5	45.5							
5000	45.6	49.3	51.5	55.1	57.8	61.1	62.9	61.8	58.1	51.2	44.3							
6300	46.0	49.4	52.1	55.9	58.4	63.0	62.9	64.2	62.1	52.4	42.4							
8000	44.8	48.2	51.1	55.9	58.2	61.5	62.9	63.6	62.1	51.8	40.1							
10000	41.8	45.7	49.6	53.3	56.6	59.4	61.6	61.1	59.7	49.0	36.2							
12500	39.5	42.6	46.7	51.4	54.6	57.1	59.2	59.9	56.6	45.7	29.8							
16000	32.5	37.1	41.7	46.1	49.6	52.3	54.0	53.8	50.3	38.1	20.3							
20000	27.0	32.1	37.4	43.1	46.1	48.2	50.0	49.6	45.4	30.7	0.0							
25000	17.6	23.4	30.1	38.7	38.4	41.2	42.1	40.6	35.3	18.2								
31500	4.3	12.6	20.1	26.5	29.5	32.0	30.9	27.6	19.5									
40000			0.7	7.7	10.3	12.5	11.8	6.3										
50000																		
63000																		
80000																		
OVERALL CALCULATED	63.6	65.0	66.8	68.6	73.3	72.6	73.6	73.5	72.0	69.3	66.4							
PNDB	73.5	75.8	76.0	81.1	83.1	85.9	87.2	86.6	84.3	78.8	74.1							

PAGE 1 FULL SCALE DATA PROCESSING PROGRAM PROC. DATE = MONTH 3 DAY 28 HR. 12.1

PUBLIC SAE-60 PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	131. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
RADIAL 17. FT.	50																		
(5. M)	125	72.2	74.9	75.9	74.5	76.3	75.4	71.8	67.5	71.5	73.9	76.7							100.5
VEHICLE P-55	160	64.7	69.2	71.2	70.2	72.3	69.8	67.5	71.8	72.8	72.0	74.9							104.8
CONFIG 75-5	200	61.2	65.7	64.7	65.7	69.8	69.8	69.8	66.8	71.7	73.8	75.7							103.5
LOC SCHENECTADY	250	64.1	67.2	64.9	66.2	67.8	69.4	68.8	70.7	72.2	74.3	76.4							104.3
DATE 1/23/75	315	67.2	70.4	69.6	69.5	69.3	70.9	71.5	72.2	72.4	74.0	75.1							105.3
RUN 55/6	400	67.3	70.4	69.9	70.2	70.1	71.2	71.9	71.5	72.7	73.3	74.7							105.3
TAPE	500	66.3	71.2	67.9	68.7	68.3	70.4	71.0	71.3	72.2	72.5	73.7							104.6
BAR 30.2 MB	630	67.1	69.3	68.2	68.8	69.1	71.2	71.8	73.0	73.5	73.8	74.2							105.1
(1019.3 MB)	800	67.6	67.5	69.2	71.3	72.9	74.0	75.3	75.8	75.7	76.1	74.2							107.6
TAMB 24. DEG F	1000	69.1	69.5	68.9	70.5	72.1	74.0	74.5	75.5	76.5	76.3	73.4							107.5
(249. DEG K)	1250	64.9	67.2	67.9	69.9	71.6	74.0	75.3	74.8	77.7	77.3	72.7							106.8
TWET 17. DEG F	1600	69.6	70.3	72.2	73.1	74.9	77.0	78.6	81.5	81.5	83.8	77.4							112.5
(245. DEG K)	2000	67.6	64.3	65.7	67.4	69.4	72.3	71.5	73.5	73.7	75.1	69.7							104.8
HACT 0.53 GM/M3	2500	61.6	63.7	63.9	65.7	66.7	68.8	70.5	71.7	71.5	72.3	68.7							102.9
(.00053 KG/M3)	3150	65.3	67.3	67.9	69.9	71.4	74.0	75.7	77.7	74.0	71.3	67.9							107.0
NFA 5339. RPM	4000	63.6	65.2	66.6	68.7	71.2	73.7	76.4	77.1	75.4	70.4	67.3							107.8
(559. MAG/SEC)	5000	66.5	67.2	68.7	71.3	74.1	76.6	80.8	82.3	81.4	77.5	72.7							112.0
NFK 5529. RPM	6300	62.6	64.1	65.6	68.3	71.3	74.1	78.2	79.9	80.0	75.4	70.7							109.7
(579. MAG/SEC)	8000	64.9	66.1	67.3	69.9	73.1	76.7	79.1	81.2	82.4	79.0	73.2							111.5
NFD 6423. RPM	10000	63.6	65.4	66.7	69.5	72.6	76.3	78.6	81.5	82.7	79.6	72.9							111.5
(924. MAG/SEC)	12500	62.3	64.5	65.6	69.4	72.3	76.0	77.9	81.6	83.4	79.5	72.8							111.0
NO. OF BLADES 18	16000	63.0	64.8	65.9	69.2	72.3	76.2	78.1	81.3	83.2	79.2	72.0							111.9
FAN TIP SPEED	20000	61.4	63.1	65.0	68.8	72.1	75.3	77.6	80.5	82.2	78.2	72.1							111.4
460. FT/SEC	25000	61.5	63.1	65.3	70.0	73.5	76.8	78.7	81.0	82.5	78.9	71.8							112.6
	31500	59.3	61.6	63.1	68.0	71.6	75.1	78.1	78.8	80.6	76.2	68.9							111.0
	40000	55.3	59.2	62.9	68.1	72.4	75.5	78.8	78.9	79.7	75.1	66.5							111.0
	50000	53.6	54.7	59.2	64.5	68.0	71.3	72.9	73.8	75.4	71.4	61.3							108.8
	63000	55.8	54.6	57.2	58.4	61.4	65.0	66.7	67.1	68.5	65.8	56.1							104.3
	80000	55.9	53.9	55.7	54.8	56.3	59.1	59.4	59.7	60.1	58.9	53.1							100.0
		57.7	57.8	55.4	54.3	54.1	54.7	55.0	54.6	54.4	54.3	52.1							102.1
OVERALL MEASURED																			
OVERALL CALCULATED		80.6	82.1	82.7	84.5	86.2	88.7	90.3	92.5	93.3	91.1	87.6							123.7
	PNDB	90.9	92.4	93.3	95.5	97.5	100.0	102.6	104.2	104.8	101.8	97.9							

PAGE 3 FULL SCALE DATA PRINCETON PROGRAM PROC. DATE = MONTH 3 DAY 23 HR. 12.1

MIDDLE STATION PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	37. (.65)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	104. (1.82)	111. (1.94)	122. (2.13)	133. (2.32)	149. (2.60)	162. (2.83)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.6	52.2	53.8	54.6	54.7	53.7	49.6	44.4	47.0	47.2	46.6						
125	41.0	46.4	49.3	49.2	47.7	47.0	45.9	46.6	47.4	45.3	44.7						
160	40.4	43.8	42.4	43.9	43.9	44.8	46.7	46.5	47.1	46.9	45.2						
200	42.0	44.2	42.6	44.1	45.2	47.4	47.3	47.4	47.5	47.3	45.7						
250	43.2	47.4	47.3	47.6	47.1	47.6	49.0	47.8	47.6	46.9	44.3						
315	44.1	47.3	47.4	48.1	45.3	49.0	48.4	48.0	47.7	46.5	43.6						
400	42.5	47.9	45.3	46.6	46.9	48.2	48.3	47.6	47.1	45.1	42.3						
500	43.7	45.5	43.5	45.7	45.9	47.9	49.0	49.3	48.2	46.2	42.6						
630	43.1	44.3	45.4	48.2	50.6	51.6	52.4	51.9	50.4	48.3	42.3						
800	43.4	45.8	46.0	48.4	49.7	51.4	51.5	51.5	50.9	49.1	41.3						
1000	46.0	43.5	44.9	47.2	47.1	51.3	52.1	52.6	52.0	49.1	40.2						
1250	44.6	46.1	49.0	52.3	52.3	54.2	55.5	57.2	55.6	53.4	44.6						
1600	38.4	39.9	42.3	44.7	45.6	47.3	48.0	49.0	47.6	46.4	36.4						
2000	35.2	38.7	40.6	42.6	43.7	45.8	46.8	47.0	45.1	43.3	34.9						
2500	39.7	42.3	44.2	46.8	48.3	50.7	51.8	52.8	47.4	42.8	33.7						
3150	37.5	40.4	42.6	45.1	47.8	50.1	52.2	51.9	48.4	41.0	32.4						
4000	37.9	41.9	44.3	47.4	50.3	54.6	56.2	56.5	54.0	46.9	36.7						
5000	35.8	38.5	40.9	44.1	47.2	51.8	53.3	53.9	52.1	44.4	34.0						
6300	37.1	39.7	41.8	44.9	48.3	51.7	53.5	54.3	53.5	46.8	34.7						
8000	34.5	37.8	40.1	43.4	46.8	50.2	51.8	52.4	51.8	45.4	31.8						
10000	31.4	35.2	37.6	41.4	45.9	48.4	49.5	51.7	50.9	42.8	27.7						
12500	29.1	32.9	35.4	38.4	42.7	46.3	47.3	48.7	47.8	38.4	21.8						
16000	22.9	27.1	30.6	35.4	39.0	41.7	42.9	43.6	41.5	30.9	11.8						
20000	16.9	21.8	25.9	31.8	35.7	38.4	38.9	38.4	35.1	23.1							
25000	5.9	12.4	16.8	22.9	27.8	29.8	28.9	28.2	23.7	6.3							
31500			5.8	13.9	17.9	20.2	19.8	16.3	9.8								
40000						8.8											
50000																	
63000																	
80000																	
OVERALL CALCULATED	54.9	58.3	59.4	61.1	62.2	64.8	64.7	65.3	63.8	60.8	55.1						
PRSM	64.4	67.2	68.9	71.6	73.8	76.9	76.2	76.6	76.6	71.3	62.6						

SIDELINE 200. FT.
63.96 M)
VEHICLE B-55
CONFIG 75-5
LOC SOMERSETARY
DATE 1/23/75
RUN 65/6
TAPE
BAR 30.2 HG
(01983. MB)
TAMB 24. DEG F
(269. DEG K)
TWET 17. DEG F
(265. DEG K)
HACT 0.51 GM/M3
(.00033 KG/M3)
NFA 5339. RPM
(559. RAD/SEC)
NFK 5529. RPM
(579. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
466. FT/SEC

BASE 1 FULL SCALE DATA REDUCTION PROGRAM PROC: DATE 4 MONTH 24 DAY 6 HR. 0:6

MODEL SOUND PRESSURE LEVELS (50, DEG, FS 78 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.68)	0.	0.	0.	0.	0.	0.	0.	PWL
	50																			
	63																			
BASIAL 17, FT.	80	80.1	80.2	71.2	73.2	74.2	76.8	74.2	67.8	67.7	71.6	84.4								180.2
S. M)	100	72.0	74.5	78.8	78.3	79.5	82.8	78.8	69.8	69.8	73.1	76.2								178.8
VEHICLE ROSS	125	85.7	88.8	78.8	69.6	72.1	78.1	67.1	76.6	78.3	71.2	74.3								184.4
SORFIG 79-8A	160	83.7	84.2	83.8	84.5	85.8	87.8	87.8	84.8	78.8	71.9	74.8								192.2
LOG SCHENECTADY	200	83.8	84.3	84.1	84.9	86.9	78.4	69.1	78.6	71.9	73.9	75.8								203.9
DATE 81031-79	225	86.0	87.4	88.8	89.1	89.4	72.4	71.9	71.9	72.4	73.2	74.8								185.1
RUN 7901	315	87.5	88.6	89.1	89.1	78.1	72.9	78.4	78.6	71.0	72.2	73.3								184.8
TAPE E80038	400	86.7	88.2	87.5	89.0	78.3	73.3	71.5	71.8	72.1	72.6	73.7								185.1
BAR 30.1 HG	500	86.1	87.2	87.9	88.7	89.7	73.2	72.4	73.0	73.7	74.3	73.4								183.7
401.2 N/M2)	630	87.8	87.3	88.9	89.9	71.8	73.6	75.1	75.4	75.2	73.3	73.2								187.2
TAMB 34. DEG F	800	84.6	87.1	87.4	89.2	78.9	74.7	74.1	75.5	75.7	75.3	74.1								187.8
(274. DEG K)	1000	85.5	86.1	88.4	78.1	72.1	78.1	75.3	76.7	77.6	77.2	77.8								188.3
TWET 24. DEG F	1250	87.1	72.1	71.7	78.5	78.4	88.1	83.9	82.7	83.2	83.8	75.8								213.4
(269. DEG K)	1600	83.5	84.5	87.8	87.8	78.5	74.5	74.5	79.8	76.4	75.8	74.2								187.1
WAET 0.34 GM/M3	2000	88.8	82.4	83.4	85.2	86.6	88.6	88.3	87.7	84.6	87.8	88.4								188.7
(.00034 KG/M3)	2500	82.8	83.3	84.9	86.9	89.1	78.2	78.2	87.4	88.9	84.8	85.4								188.2
BPI 3443. BPR	3150	88.5	81.1	8.1	84.6	87.1	71.	78.2	88.9	7.5	7176	86.9								10.8
(9781. RAD/SEC)	4000	91.2	91.8	83.3	85.9	88.8	72.9	73.8	73.9	78.8	78.3	71.9								187.5
BPR 9570. BPR	5000	82.7	83.5	85.2	87.1	78.5	73.4	77.1	77.6	88.9	78.6	72.8								188.4
(958. RAD/SEC)	6300	84.1	85.1	84.9	88.4	71.8	78.4	78.2	88.4	82.7	77.3	72.7								111.1
BPR 8625. BPR	8000	82.8	84.8	84.9	88.8	71.9	79.4	78.2	81.8	84.9	79.7	73.5								211.1
(736. RAD/SEC)	10000	84.8	89.4	73.1	77.3	88.5	88.9	82.9	84.5	84.2	78.7	73.5								119.1
OB; OF BLADES 13	12,500	26.7	79.1	8.1	87.7	9.8	9.7.3	9.8.8	79.2	9.2.9	88.5	81.7								1.8.8
BAR TIP SPEED	16000	88.2	78.8	78.5	78.9	82.9	83.2	87.5	88.8	88.8	82.5	76.9								178.4
479; FT/SEC	20000	82.7	85.7	87.5	78.7	74.8	79.3	81.9	84.7	86.1	82.1	73.8								119.8
	25000	88.3	82.1	83.8	87.2	78.1	74.3	78.2	81.1	82.9	79.5	78.7								113.8
	31500	87.8	88.8	81.8	89.4	89.1	88.4	79.7	78.8	88.8	75.8	87.8								111.4
	40000	85.9	87.9	88.1	82.1	84.1	85.3	73.3	75.6	77.8	73.4	82.9								10.6
	50000	82.5	85.8	82.8	84.9	88.5	87.8	84.8	87.8	88.8	84.3	83.9								183.4
	63000	88.7	82.1	83.8	87.1	88.8	87.6	84.4	87.3	88.8	84.8	88.2								183.8
	80000	82.9	83.3	81.8	88.2	86.3	88.1	81.4	81.8	81.8	88.8	8.8.8								98.4
OVERALL SOUND																				
OVERALL CALCULATED		91.7	85.7	86.2	88.8	83.6	78.4	84.2	87.4	88.8	83.8	88.8								188.5
	PWL	88.4	88.8	82.8	84.8	87.8	88.2	188.1	181.8	188.3	181.8	87.8								

BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC: DATE & MONTH 04 DAY 4 HR: 0:6

MODEL SOUND PRESSURE LEVELS (90° DEG. F: 70 PERCENT REL. HUM: DAY)

ANGLES FROM INLET TO DISCHARGE (ARC RADIANS)

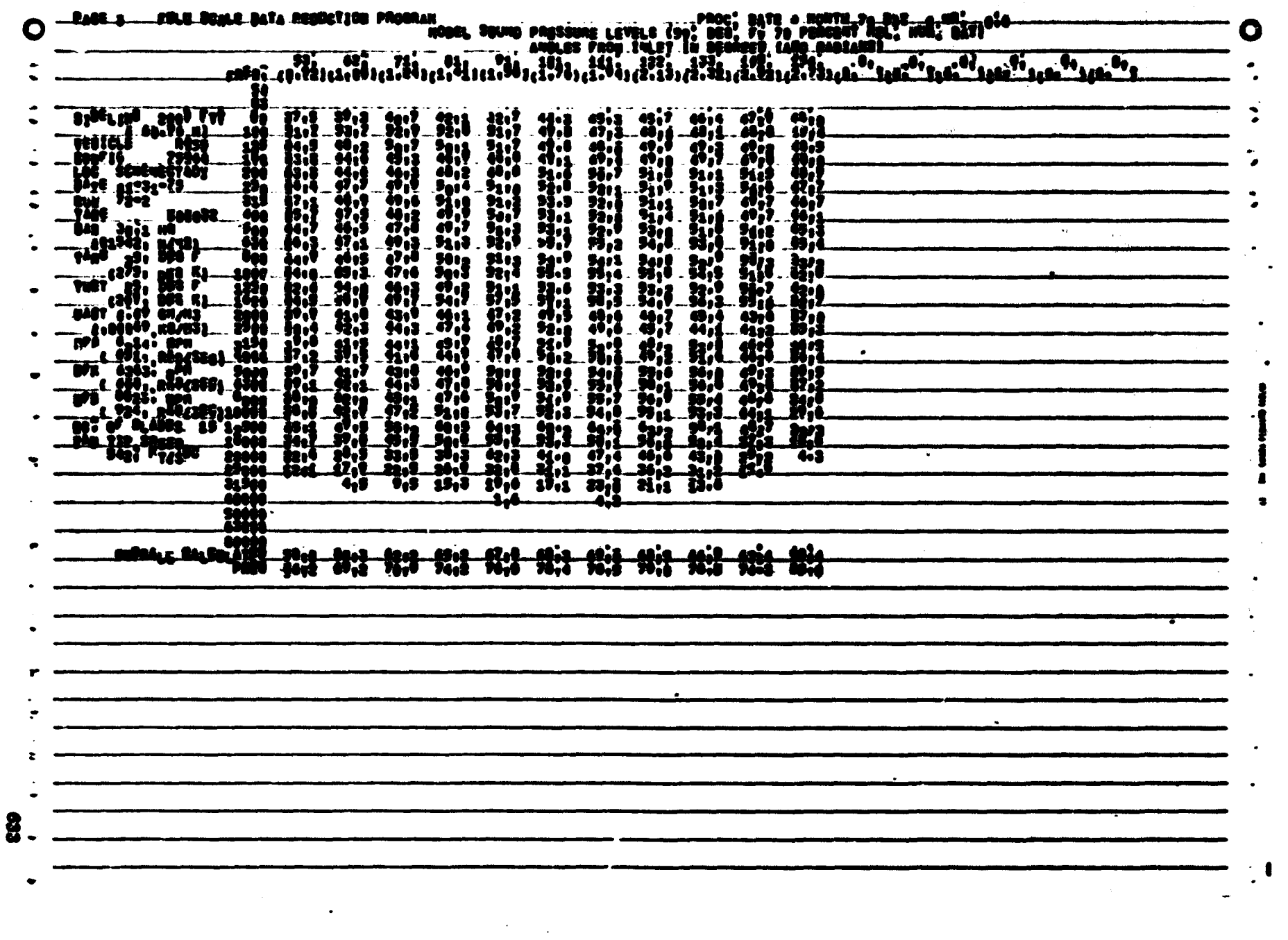
FREQ:	93. (0.12)	82. (1.60)	74. (1.34)	81. (1.41)	9. (1.54)	101. (1.76)	141. (1.04)	122. (2.13)	133. (2.32)	163. (2.84)	0.	0.	0.	0.	0.	0.
20																
25																
31	44.5	46.5	49.2	51.6	52.7	54.3	49.1	44.8	43.4	42.5	44.5					
40	49.2	51.7	53.7	56.6	57.7	57.3	53.6	46.8	45.6	47.6	46.2					
50	42.8	46.8	48.7	47.8	50.4	48.3	44.8	47.4	49.6	44.9	44.8					
63	39.8	41.3	43.5	42.7	43.3	49.6	45.4	45.5	49.7	45.8	43.8					
80	39.8	41.3	41.8	42.9	45.1	48.6	46.7	47.3	47.1	46.5	44.9					
100	42.7	44.3	46.5	47.1	47.5	50.3	49.3	48.4	47.3	46.1	43.4					
125	43.4	45.4	46.6	47.8	48.2	50.7	47.7	47.1	46.7	45.2	42.2					
160	42.4	45.8	45.8	46.7	48.2	51.3	48.8	48.2	47.8	45.3	42.6					
200	41.7	43.8	43.2	46.4	47.6	50.9	49.6	49.2	48.5	46.7	42.1					
250	42.8	43.8	44.1	47.3	48.4	53.2	52.2	51.3	50.3	47.7	43.4					
315	41.9	43.9	44.9	46.7	48.6	52.1	51.1	51.5	50.2	47.3	39.9					
400	40.7	42.3	43.3	47.3	47.6	52.4	52.1	52.3	51.9	49.8	39.6					
500	42.1	40.2	40.5	43.7	43.8	47.4	47.3	46.4	47.4	45.9	37.8					
630	38.2	37.2	43.7	44.9	47.8	54.3	51.8	51.3	50.2	46.7	37.6					
800	35.4	34.9	37.8	42.1	43.7	48.4	44.6	43.9	43.1	38.3	32.3					
1000	36.3	39.8	43.8	43.6	45.9	48.9	44.3	42.7	42.3	36.7	31.2					
1250	34.2	36.2	38.3	41.1	43.7	47.8	46.8	43.4	45.3	41.7	32.8					
1600	34.2	36.2	39.8	41.1	45.8	47.9	48.8	48.1	51.8	47.2	38.9					
2000	35.9	37.8	40.5	42.9	46.6	47.1	51.2	51.8	53.8	47.8	39.2					
2500	36.3	38.6	41.2	43.3	46.1	49.6	52.6	53.6	53.8	47.8	34.2					
3150	36.7	36.9	40.3	42.8	46.1	48.4	52.4	52.4	51.7	45.8	34.8					
4000	33.7	34.3	37.3	40.1	43.1	47.3	54.3	54.3	54.7	48.2	34.8					
5000	35.9	37.8	40.5	42.9	46.6	47.1	51.2	51.8	53.8	47.8	39.2					
6300	36.3	38.6	41.2	43.3	46.1	49.6	52.6	53.6	53.8	47.8	34.2					
8000	36.7	36.9	40.3	42.8	46.1	48.4	52.4	52.4	51.7	45.8	34.8					
10000	33.7	34.3	37.3	40.1	43.1	47.3	54.3	54.3	54.7	48.2	34.8					
12500	31.8	37.2	39.5	37.7	40.5	43.4	43.2	43.6	43.4	37.2	29.7					
16000	30.6	34.2	36.1	43.8	41.8	41.7	42.1	42.1	42.3	38.3	28.2					
20000	30.2	34.2	36.1	38.5	36.7	37.8	42.1	42.1	38.7	26.4	1.0					
25000	7.8	12.6	16.1	22.1	27.8	28.8	34.1	34.1	28.1	11.8						
31500		0.2	3.9	10.3	14.9	13.8	17.8	16.3	10.8							
40000																
50000																
63000																
80000																
OVERALL SWL	52.2	55.3	59.3	62.3	64.1	67.8	67.1	66.9	66.7	63.1	46.7					
TOTAL	62.4	65.5	67.2	73.9	73.2	75.2	75.7	75.9	75.4	71.8	62.0					

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG' DATE = MONTH 78 DAY 6 HR: 8:6

MODEL SOUND PRESSURE LEVELS (DB' DEG' F' 70 PERCENT REL' HUM' DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.68)	0.	0.	0.	0.	0.	0.	0.	PWL
20																			
25																			
31	81.1	81.9	82.7	83.7	84.2	84.8	87.5	88.7	79.7	74.3	77.9								203.3
40	75.4	76.5	75.8	74.3	73.3	71.5	69.5	71.0	72.5	75.4	79.5								188.4
50	68.2	71.0	72.8	71.8	73.3	71.6	78.3	73.1	73.8	75.9	78.8								187.3
63	67.2	67.5	67.5	68.8	68.2	71.8	71.8	72.3	74.3	76.4	78.3								186.3
80	67.3	67.6	68.4	70.1	70.4	73.6	73.1	73.1	75.9	78.5	79.6								188.8
100	70.5	70.8	72.3	72.4	72.7	74.9	74.6	74.4	76.1	77.7	78.5								190.7
125	71.3	72.1	72.1	73.1	73.1	75.6	74.8	74.6	75.6	77.0	77.8								190.6
160	69.7	70.7	70.8	72.0	72.0	73.3	74.8	75.8	76.1	77.1	77.5								188.4
200	69.1	69.9	70.4	72.0	72.4	73.4	75.7	76.7	77.8	77.8	76.9								188.8
250	70.8	70.6	72.1	73.6	73.1	73.1	78.1	78.7	79.2	78.2	77.3								191.2
315	69.6	70.1	70.7	72.7	73.7	74.4	77.1	78.8	78.5	78.3	75.3								189.7
400	68.8	69.1	70.6	72.9	74.9	76.1	78.6	79.9	80.2	80.0	75.3								191.1
500	67.4	67.9	69.4	72.8	73.7	74.4	76.4	77.5	78.8	78.1	74.8								189.6
630	69.7	71.8	73.1	77.8	80.3	82.8	80.5	78.8	82.4	83.2	75.9								194.1
800	65.4	66.1	67.4	69.2	70.2	72.6	72.3	71.5	71.7	72.4	70.8								186.7
1000	66.8	66.8	68.1	70.7	72.3	73.3	73.8	74.7	76.7	76.8	69.2								187.8
1250	65.8	66.4	68.1	69.6	72.1	73.5	77.6	78.4	79.6	76.6	71.5								188.6
1600	63.8	64.6	66.3	68.9	71.6	74.2	76.7	76.9	77.2	77.4	72.4								189.1
2000	66.2	67.3	68.9	71.3	74.8	76.7	78.9	81.6	84.8	83.4	75.1								192.3
2500	66.7	68.5	70.5	72.7	75.2	77.9	81.5	85.8	85.1	82.1	75.7								192.6
3150	67.1	69.6	71.7	73.6	76.7	78.8	82.5	85.7	85.0	83.8	76.1								193.1
4000	69.4	72.2	73.4	76.6	81.8	79.9	83.2	85.1	89.0	84.8	76.1								195.8
5000	70.9	73.9	74.7	78.1	81.8	79.8	84.8	86.8	84.8	84.6	76.2								196.0
6300	73.2	75.9	77.8	84.3	88.8	83.8	89.0	92.9	91.5	84.4	77.2								199.6
8000	67.3	70.0	73.6	76.6	84.2	78.4	87.2	89.2	88.4	84.0	77.1								192.1
10000	65.8	67.1	69.8	72.8	77.4	78.3	84.5	86.9	86.6	83.8	75.2								190.6
12500	62.4	63.1	64.8	70.5	74.2	78.4	83.8	84.3	84.3	79.9	73.8								185.7
16000	62.8	63.1	63.4	67.4	73.9	80.1	77.9	80.2	80.6	77.0	69.8								183.0
20000	58.5	59.4	58.7	60.7	63.4	66.1	71.3	72.1	72.6	70.1	64.3								168.2
25000	57.1	57.8	59.2	54.4	54.8	58.4	61.5	63.2	62.3	58.6	58.1								161.4
31500	45.1	45.5	46.4	48.3	48.2	48.4	41.7	43.1	39.9	43.5	48.4								150.3
OTHERS PRESENT																			
OVERALL CALCULATED	84.7	86.3	88.0	91.7	94.8	99.6	99.8	99.6	99.1	98.8	91.8								209.9
MEASD	72.8	74.1	75.8	77.7	79.8	102.9	103.3	102.1	100.3	98.4	88.4								



PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC: DATE - MONTH 30 DAY 0 00: 0:6

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DRY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	20																			
	25																			
BARIAL 17. FT.	80	81.9	83.2	84.0	85.2	86.0	85.5	78.6	71.7	74.4	77.3	81.9								106.8
(5. MI)	100	85.7	92.2	71.8	71.3	71.3	73.3	78.5	71.3	74.2	78.7	82.7								108.6
VEHICLE R955	125	71.7	79.5	78.3	77.3	77.8	77.1	73.8	76.3	77.6	79.2	83.0								111.9
CONFIG 75P6A	150	70.4	71.0	78.5	71.8	72.0	74.8	74.8	76.0	78.6	80.1	82.5								109.9
LOC SCHENECTADY	200	78.0	78.3	78.6	72.1	73.9	77.4	76.4	77.9	79.1	81.9	83.6								111.3
DATE 01-31-79	270	73.8	74.1	75.3	75.9	76.6	79.1	78.6	79.1	0.9	81.2	83.0								112.6
RUN 78-3	315	74.8	75.1	75.1	75.9	76.6	79.4	77.4	77.9	78.6	80.2	81.8								111.9
TAPE E08082	400	72.7	73.9	73.5	74.8	76.0	78.5	77.5	77.8	78.8	79.9	81.2								111.2
BAR 30.1 HG	500	71.9	72.7	72.9	75.0	75.9	78.2	78.2	79.5	79.7	80.9	81.1								111.8
(01942. N/M2)	630	73.5	73.3	74.4	76.1	77.6	81.4	80.6	81.4	81.4	81.2	80.3								113.4
TAMB 35. DEG F	800	72.8	73.1	73.4	75.7	77.2	80.4	79.9	80.7	81.2	80.7	78.8								112.7
(275. DEG K)	1000	71.0	71.3	72.6	75.4	77.2	80.9	80.1	81.2	81.2	80.7	78.5								112.9
THET 25. DEG F	1250	70.1	70.4	71.9	74.5	75.7	79.9	79.1	80.5	82.3	80.6	78.6								112.4
(269. DEG K)	1600	70.7	71.5	74.1	75.1	77.3	84.8	84.3	79.6	83.1	81.7	77.2								113.3
WABT 0.69 GM/M3	2000	69.4	70.1	71.4	73.9	79.7	79.4	78.3	76.5	79.2	78.8	76.3								110.6
(.00069 KG/M3)	2500	69.8	70.1	71.3	74.4	79.8	78.8	75.7	73.7	74.5	73.8	74.5								108.9
RPS 7051. RPM	3150	67.8	69.1	70.6	73.2	79.6	79.8	77.5	76.9	80.7	78.4	74.7								110.6
(738. RAD/SEC)	4000	66.8	67.8	69.8	72.8	79.3	78.2	76.9	77.1	82.6	78.4	75.1								110.8
RPM 7179. RPM	5000	68.8	70.1	71.3	74.9	77.5	80.2	82.9	84.1	86.7	84.2	76.9								115.1
(752. RAD/SEC)	6300	69.4	71.0	73.0	75.2	78.7	81.4	84.8	86.5	89.5	87.9	77.2								117.3
RPS 8523. RPM	8000	69.4	71.8	74.8	77.1	80.0	82.5	86.2	88.8	89.8	84.8	78.6								117.6
(924. RAD/SEC)	10000	67.9	69.7	71.9	74.8	77.3	78.4	82.4	86.1	87.8	81.8	79.8								115.8
NO. OF BLADES 15	12500	70.8	73.4	76.2	80.3	83.6	84.8	87.1	89.8	90.0	83.6	78.8								119.8
FAN TIP SPEED	16000	70.2	72.8	76.3	80.8	83.8	82.8	88.1	91.3	89.8	83.6	78.2								120.5
612. FT/SEC	20000	69.5	72.5	76.3	79.6	83.2	82.6	88.7	91.0	91.9	85.9	78.8								121.8
	25000	67.8	70.1	72.5	76.9	80.9	79.8	87.6	89.6	91.8	85.8	78.0								121.1
	31500	65.1	67.9	70.3	74.5	78.4	76.7	84.6	87.6	88.3	83.4	74.5								119.8
	40000	63.5	65.9	67.2	71.4	75.2	73.6	81.4	83.9	84.8	79.8	69.7								117.4
	50000	60.6	61.6	64.0	67.6	68.1	74.8	76.1	76.6	72.1	62.5									111.8
	63000	57.1	57.4	55.7	55.2	57.6	57.4	64.8	64.7	62.8	61.1	55.5								103.8
	80000	53.1	53.8	61.1	60.3	60.4	63.2	61.5	61.1	59.9	59.8	60.7								100.4
OVERALL MEASURED																				
OVERALL CALCULATED		84.9	86.8	87.9	90.2	92.8	94.2	97.6	99.1	100.2	98.9	94.2								130.5
	PNLB	94.8	96.1	97.4	99.8	102.8	103.8	106.8	107.2	108.8	105.7	103.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 6 YR: 016

MODEL SOUND PRESSURE LEVELS (50. DEG. F; 70 PERCENT REL. HUM. DATA)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.69)	.0 (.0)	.0 (.0)	.0 (.0)	.0 (.0)	.0 (.0)	.0 (.0)
FREQ:																	
50																	
63																	
SIREN 2800 RPM	80	38.8	40.5	41.9	43.6	44.8	47.8	47.8	48.7	49.7	96.9	92.8					
(69.76 HZ)	100	42.8	49.5	49.7	49.8	49.7	51.5	48.3	48.2	50.1	92.3	92.7					
VEHICLE A65S	125	48.8	56.7	56.2	55.6	56.2	55.3	51.5	53.2	53.1	92.3	92.8					
SCRFIG 79864	160	46.8	48.1	48.3	49.9	53.3	52.9	52.4	52.8	53.4	93.3	92.8					
LOC SCHENECTADY	200	46.1	47.3	48.3	50.2	52.1	55.4	53.9	54.5	54.4	94.5	92.9					
DATE 82-31-25	250	49.7	51.0	52.9	53.9	54.7	57.1	56.1	55.7	56.8	94.1	92.2					
SUB 72-3	315	48.6	51.7	52.6	53.8	54.7	57.2	54.7	54.4	53.7	93.8	90.7					
TAPE B00032	400	48.4	50.2	50.9	52.6	54.8	56.3	54.8	54.2	53.7	92.5	89.9					
BAR 30.1 HG	500	47.5	49.3	50.3	52.7	53.8	56.9	55.4	55.7	54.9	93.8	89.6					
(29.92 IN/HG)	630	48.8	49.8	51.8	53.8	55.4	58.9	57.7	57.5	56.6	93.9	89.4					
TAMB 35. DEG F	800	48.2	49.5	50.5	52.2	54.8	57.9	56.8	56.7	55.7	92.3	88.7					
(275. DEG K)	1000	46.2	47.8	48.8	50.8	54.9	58.2	56.9	57.8	56.4	92.5	88.1					
TMET 25. DEG F	1250	45.4	46.5	48.8	51.7	53.1	57.1	55.8	56.2	56.4	92.8	85.8					
(269. DEG K)	1600	45.5	47.4	50.7	52.2	54.3	58.8	57.6	55.1	57.8	93.6	84.7					
RACT 0.80 GM/M3	2000	43.9	45.8	47.9	50.4	52.7	56.2	54.6	54.7	53.9	49.6	82.5					
(.00087 LB/M3)	2500	43.6	45.0	47.6	51.1	52.7	55.5	54.9	48.7	47.8	44.5	80.3					
RPS 7011. RPM	3150	41.8	44.2	46.6	49.8	52.2	56.2	53.2	51.7	53.7	45.2	79.8					
(736. RAD/SEC)	4000	38.2	42.2	45.3	48.4	51.9	54.2	52.3	51.4	50.4	47.8	80.2					
RPM 7179. RPM	5000	41.9	44.5	46.5	50.7	53.5	56.9	55.0	56.1	56.8	53.2	80.2					
(752. RAD/SEC)	6300	41.6	44.6	47.5	50.3	53.9	56.4	55.1	55.8	55.6	51.6	80.7					
RPM 8023. RPM	8000	40.3	44.9	47.4	51.1	54.1	56.4	55.4	55.6	55.4	49.8	87.3					
(924. RAD/SEC)	10000	38.8	40.8	43.7	47.8	49.9	50.8	54.8	56.1	54.9	44.3	86.8					
NO. OF BLADES 19	12500	34.8	41.5	45.7	50.5	54.8	57.8	56.3	57.2	56.4	48.7	87.8					
FAN TIP SPEED	16000	31.7	36.9	42.8	47.3	52.8	57.2	57.1	58.3	57.2	50.2	87.8					
628. FT/SEC	20000	24.9	31.8	37.8	41.3	45.3	44.3	48.9	48.4	44.8	38.8	6.8					
	25000	14.1	20.7	26.8	31.4	36.3	34.8	39.2	39.8	34.2	17.4						
	31500		7.3	13.2	17.3	23.8	24.3	26.7	25.1	17.6							
	40000				1.3	9.8	3.2	7.7	3.7								
	50000																
	63000																
	80000																
OVERALL SAE LEVEL	100	39.6	42.4	43.2	45.4	47.2	49.8	49.1	49.5	49.8	45.2	92.2					
	PNLB	40.7	41.2	73.1	76.8	78.2	81.4	81.2	81.2	81.7	79.2	98.3					

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636

BASE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC, DATE & MONTH 30 DEC 0 00' 0.0

MODEL SOUND PRESSURE LEVELS (30' DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

	FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	50																			
	63																			
RADIAL 1?, FT.	80	65.4	65.4	66.2	67.9	68.0	72.2	73.5	74.7	76.9	80.8	85.4								118.8
(0. MI)	100	67.8	71.8	71.8	72.0	73.0	78.0	73.5	74.5	78.6	82.1	86.7								111.7
VEHICLE R95E	125	74.7	77.3	77.1	76.8	77.1	78.8	78.1	80.1	80.8	82.9	86.8								113.9
SCALE 25=6A	160	73.4	74.8	74.0	75.0	74.8	77.8	77.8	79.3	81.5	83.9	86.2								113.4
LOC SCHENECTADY	200	72.5	72.6	73.1	74.6	76.9	80.9	79.1	80.8	82.1	85.0	87.6								116.6
DATE 21-31-75	250	69.8	70.9	71.8	82.1	82.6	83.6	84.3	85.9	86.1	87.6	88.0								110.6
RUN 7204	315	78.0	78.3	78.1	78.9	79.4	82.4	83.1	84.1	82.1	83.5	85.8								115.1
TAPE R04082	400	77.7	76.7	76.3	78.0	78.0	81.5	79.8	80.9	82.1	82.9	85.2								114.2
BAR 3871 MB	500	76.4	74.9	75.7	76.5	77.7	81.2	81.2	81.7	82.5	83.3	83.9								114.4
(81542, K/M2)	630	78.3	75.0	76.9	78.6	79.9	84.4	83.8	83.9	84.2	84.8	83.3								116.1
TAMB 35, DEG F	800	77.1	75.9	76.7	78.4	79.7	82.9	82.4	83.5	83.5	82.8	82.6								115.8
(279, DEG K)	1000	78.5	74.3	75.6	77.6	78.6	83.1	82.1	82.2	84.4	82.7	81.3								115.1
THET 35, DEG F	1250	73.1	73.2	74.9	76.7	78.4	81.7	81.1	82.0	83.9	82.8	81.3								114.2
(269, DEG K)	1600	73.0	74.0	74.8	76.4	77.8	80.8	80.2	80.4	82.4	84.7	80.2								112.2
RHOT 0.09 GM/M3	2000	72.9	73.9	75.1	76.0	78.2	81.1	80.8	82.5	83.5	80.9	80.3								113.9
(100869, KG/M3)	2500	72.8	72.8	73.8	74.4	78.6	81.0	78.7	77.2	79.6	77.6	78.8								111.8
RPM 7783, RPM	3150	71.3	71.9	74.1	75.9	78.6	81.8	78.7	78.2	81.2	78.4	77.2								112.6
(815, RAD/SEC)	4000	71.8	71.6	73.0	76.9	79.1	81.2	83.7	81.4	86.7	82.1	78.6								114.8
RPM 7970, RPM	5000	70.8	71.3	73.3	75.6	78.8	81.7	82.6	84.4	87.8	82.8	78.1								115.8
(8341, RAD/SEC)	6300	72.1	73.8	75.7	78.7	81.2	83.9	87.8	90.2	94.7	84.4	79.2								120.0
RPM 8023, RPM	8000	72.4	74.6	76.2	80.1	83.2	85.0	89.2	91.5	96.8	86.8	80.9								120.4
(9241, RAD/SEC)	10000	73.4	72.2	74.8	77.1	79.8	84.2	85.2	88.1	91.1	82.7	78.3								118.1
NO. OF BLADE 19	12500	72.5	74.6	77.7	81.0	84.1	83.1	86.8	91.0	94.5	85.3	79.5								121.1
FAN TIP SPEED	16000	72.7	75.3	79.1	82.3	85.8	84.0	86.3	92.6	92.6	85.8	80.2								122.7
679, FT/SEC	20000	73.3	74.7	80.3	83.1	86.7	89.8	92.7	94.7	95.1	88.7	81.6								125.4
	25000	71.6	74.1	77.8	80.5	85.2	83.8	91.2	94.4	95.3	89.9	82.0								123.5
	31500	68.4	72.6	74.8	78.8	82.2	84.9	89.1	91.9	92.1	85.6	77.8								123.6
	40000	66.8	69.1	71.2	75.4	78.2	78.9	85.7	87.9	88.6	83.4	72.2								121.2
	50000	61.6	63.8	64.2	67.7	71.1	69.9	78.3	79.6	80.1	75.8	65.8								119.3
	63000	57.1	57.4	55.9	57.7	60.6	58.4	67.7	68.7	68.5	64.1	54.3								117.1
	80000	53.2	53.5	51.1	48.3	48.4	48.2	51.5	51.1	59.9	59.8	50.7								106.4
OVERALL MEASURED																				
OVERALL CALCULATED		68.6	69.3	70.7	72.9	75.2	76.7	101.1	102.3	103.1	98.0	87.7								133.6
	PWL	98.2	98.9	100.3	102.5	104.9	107.3	130.4	131.5	132.1	128.4	116.3								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 04 DAY 0 YR 0

MODEL SOUND PRESSURE LEVELS (90. DEG. F@ 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	30. (0.52)	60. (1.05)	90. (1.57)	120. (2.09)	150. (2.62)	180. (3.14)	210. (3.67)	240. (4.19)	270. (4.71)	300. (5.24)	330. (5.76)	360. (6.28)
80	41.8	42.8	44.2	45.8	46.5	54.5	55.8	51.7	52.4	54.4	55.5	
100	43.7	46.2	49.7	50.3	51.4	54.3	51.3	51.5	53.0	55.6	56.7	
125	51.0	54.5	54.9	55.1	55.4	57.0	55.8	56.9	56.3	56.2	56.3	
160	55.8	51.1	51.8	53.2	53.0	59.9	58.4	56.0	56.9	57.6	55.8	
200	48.6	49.6	50.8	52.7	55.1	58.9	56.7	57.3	57.4	58.8	56.9	
250	55.7	56.5	59.2	60.1	60.7	61.6	61.0	62.4	61.3	61.3	62.2	
315	53.9	55.2	55.6	56.8	57.4	60.2	57.5	57.6	57.2	56.2	54.5	
400	53.4	53.5	53.7	55.9	56.7	57.3	57.8	56.9	57.6	55.5	53.9	
500	52.8	51.5	53.0	54.2	55.6	58.9	58.4	58.0	57.3	55.7	52.3	
630	53.6	52.1	54.1	56.3	57.6	61.9	59.9	60.0	58.8	56.5	51.4	
800	52.4	52.3	53.8	55.9	57.3	60.4	59.3	59.5	57.9	54.8	50.4	
1000	50.7	51.8	52.6	55.0	56.1	60.5	58.7	58.8	58.7	54.9	50.8	
1250	48.1	49.2	51.8	54.0	55.6	58.9	57.8	57.7	57.6	53.9	48.5	
1600	47.8	49.9	51.5	53.4	55.0	57.8	56.7	55.9	56.3	52.8	46.2	
2000	47.4	49.6	51.6	52.9	55.2	58.0	57.1	57.7	57.1	51.8	44.5	
2500	46.4	48.1	50.1	53.1	55.5	57.7	54.9	52.2	52.3	48.8	43.8	
3150	45.5	47.0	50.1	52.8	55.2	58.2	54.6	52.7	54.2	47.5	42.3	
4000	44.8	46.3	48.8	52.7	55.8	57.2	56.5	55.7	54.2	51.5	42.7	
5000	43.9	45.7	48.5	51.7	54.7	57.4	57.8	58.2	54.8	51.6	41.5	
6300	44.4	47.1	50.3	53.8	56.4	58.9	61.4	63.6	62.8	52.2	40.7	
8000	43.3	47.8	49.6	54.1	57.4	58.9	62.4	63.4	62.4	51.8	39.6	
10000	38.8	42.9	46.7	49.5	52.4	52.6	58.8	58.1	57.8	45.8	33.1	
12500	38.8	42.8	47.2	51.3	54.5	53.2	58.8	58.4	55.9	44.9	28.5	
16000	34.2	39.3	44.7	48.8	52.6	50.5	55.6	55.7	54.9	38.8	23.8	
20000	28.8	33.3	41.0	44.8	48.8	47.3	52.9	52.1	47.8	32.9	8.8	
25000	20.3	24.9	31.2	35.4	40.5	38.6	44.1	43.7	38.4	24.2		
31500	2.3	12.0	17.7	23.8	27.8	25.6	31.2	29.4	21.3	8.6		
40000				5.3	8.9	6.8	11.0	2.2				
50000												
63000												
80000												
OVERALL SOUND	53.8	54.8	56.2	58.8	61.6	70.4	74.9	75.4	74.8	68.8	64.6	
PNDB	72.2	73.8	76.2	78.7	80.8	83.6	85.5	84.4	84.2	77.8	73.8	

BASE : FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 75 DAY 6 HR' 0'0

MODEL SOUND PRESSURE LEVELS (59' DEG' F' 70 PERCENT REL' HUM' DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ'	53' (0.92)	62' (1.08)	71' (1.24)	81' (1.41)	91' (1.59)	101' (1.76)	111' (1.94)	122' (2.13)	133' (2.32)	145' (2.53)	156' (2.72)	0' (0.)	0'	0'	0'	0'	0'	0'	PWL
	50																			
	63																			
RADIAL 17' FT'	80	64'8	65'7	66'7	67'9	68'2	74'2	73'6	74'7	77'8	81'1	85'2								110'0
S' MI	100	66'9	71'8	72'3	72'0	72'8	79'3	73'3	74'0	77'8	82'4	86'3								111'6
VEHICLE R455	125	75'0	77'3	77'1	76'8	76'8	77'6	77'8	79'6	80'1	83'2	86'3								113'6
ECH FIG Z596A	160	73'8	73'2	74'0	75'0	74'8	77'0	78'3	79'3	81'8	83'9	86'0								113'3
LOC SCHENECTADY	200	72'8	72'8	73'6	74'6	76'1	79'8	79'4	80'9	82'1	85'0	87'1								114'3
DATE 01-31-75	250	73'3	73'3	01'8	02'1	02'4	09'1	84'6	85'9	86'4	87'2	87'8								115'5
RUN 72-5	315	77'0	78'1	78'9	78'8	79'1	81'1	80'6	80'9	81'9	84'8	85'1								114'8
TAPE E88032	400	76'2	76'7	76'5	78'0	78'5	80'5	80'5	81'3	82'4	83'9	85'8								116'5
BAR 30.1 HG	500	74'1	74'9	75'7	77'0	77'9	80'9	80'9	82'0	82'9	83'3	83'9								114'4
(01342, N/M2)	630	75'8	75'3	77'1	78'1	79'6	82'9	83'3	83'9	83'2	84'8	83'3								115'2
TAMB 39' DEG F	800	75'8	75'9	76'2	78'2	78'9	82'2	82'4	82'7	83'2	83'8	82'1								114'9
(275' DEG K)	1000	73'8	74'1	75'8	77'4	78'9	82'6	82'6	83'2	83'9	82'7	81'8								113'8
TWET 29' DEG F	1250	72'9	73'4	75'4	76'7	78'4	80'9	81'4	82'2	83'3	82'6	80'8								114'2
(269' DEG K)	1600	72'2	73'5	75'1	76'4	27'6	80'3	80'7	80'9	82'4	81'8	79'2								113'2
WAET 0.69 GM/M3	2000	73'1	74'1	75'4	75'5	77'4	80'6	81'3	82'7	83'8	81'4	80'0								113'8
(.00069, KG/M3)	2500	72'8	72'8	74'3	76'9	78'1	80'0	78'5	77'2	78'8	78'1	77'2								111'6
RPS 7782. RPM	3150	71'5	72'1	73'8	75'9	78'1	81'5	79'2	77'9	81'2	81'9	77'0								111'2
(815' RAD/SEC)	4000	70'8	71'8	73'3	76'7	79'1	80'7	81'2	81'1	86'2	81'9	78'1								113'6
RPM 7969' RPM	5000	70'3	71'6	73'3	75'6	78'3	80'9	82'9	84'4	87'8	82'6	77'6								113'7
(834' RAD/SEC)	6300	71'0	73'0	75'7	78'5	81'2	83'4	87'0	90'0	91'5	84'2	79'2								119'8
RPS 8823' RPM	8000	72'9	74'6	77'2	80'1	82'5	84'5	89'2	92'0	92'5	84'9	80'1								121'5
(924' RAD/SEC)	10000	74'6	76'9	74'6	77'1	79'6	78'7	85'7	88'1	89'8	83'2	77'6								118'2
60' OF BLADES 19	12500	72'3	74'4	77'9	81'3	83'8	82'1	88'8	91'3	91'8	85'3	79'0								122'0
RAM TIP SPEED	16000	72'5	75'5	78'8	82'3	85'0	83'8	91'8	92'8	92'8	85'8	79'2								122'2
679' FT/SEC	20000	72'8	76'5	80'1	82'8	86'2	85'1	93'6	94'7	94'9	88'7	80'8								125'2
	25000	71'6	74'1	78'8	80'5	84'9	83'1	92'8	94'4	94'8	89'8	81'5								125'5
	31500	68'9	72'4	75'1	78'8	81'9	80'4	89'3	92'1	92'3	86'4	77'5								123'0
	40000	66'3	69'6	71'4	75'1	78'7	76'6	86'2	87'7	87'9	83'6	72'2								121'2
	50000	63'8	63'4	64'5	67'7	71'1	68'9	78'6	79'4	80'1	75'9	65'0								115'8
	63000	57'1	57'4	55'9	57'7	60'3	58'9	68'6	68'5	68'8	64'8	54'3								107'2
	80000	53'1	53'5	51'4	50'3	50'2	48'4	58'7	61'1	59'9	56'1	48'4								100'3
OVERALL MEASURED SOUND																				
OVERALL CALCULATED		77'9	80'0	80'9	82'8	85'0	85'0	100'4	102'4	103'1	99'1	92'3								120'5
	PWL	77'9	78'8	100'4	102'4	104'3	100'7	100'8	111'0	111'1	100'8	46'9								

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OF POOR QUALITY

BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC: DATE & MONTH 78 DAY 0 HR: 0:0

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

	92. (1.62)	82. (1.60)	72. (1.24)	81. (1.41)	93. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	132. (2.32)	142. (2.48)	152. (2.73)	0.	0.	0.	0.	0.	0.
SPEED 2000 CYC	80	41.0	43.8	44.7	45.8	46.7	49.3	50.0	51.7	52.7	54.4	55.3					
(65.76 HZ)	100	43.2	89.2	58.2	59.3	51.2	53.3	54.1	51.0	53.1	55.6	26.2					
VEHICLE ROSS	125	51.2	54.5	54.9	55.1	55.2	56.0	55.3	56.4	55.6	56.5	56.8					
CONFIG 7584A	150	50.6	50.3	51.0	53.2	53.0	55.1	55.9	56.0	57.2	57.8	57.2					
LOC SCHENECTADY	200	48.8	49.6	51.3	52.7	54.3	57.6	56.9	57.5	57.4	58.6	56.4					
DATE 01-31-78	250	45.2	56.3	58.4	60.1	60.5	63.1	62.1	62.4	61.8	61.8	58.2					
RUN 7305	315	52.9	54.9	56.4	58.5	57.2	59.0	58.0	57.4	58.9	58.7	54.0					
TAPE 506038	400	51.2	53.5	53.9	55.9	56.5	58.3	57.8	57.2	57.6	56.8	53.6					
BAR 30.71 HG	500	49.7	51.9	53.0	54.7	55.8	58.6	58.1	58.2	57.9	55.7	52.3					
(29.582, M/S2)	630	48.5	51.8	54.3	55.8	57.6	60.4	60.4	60.0	58.3	56.8	51.6					
TAMB 59. DEG F	800	50.9	52.2	53.3	55.7	56.6	57.0	58.3	58.7	57.7	55.1	49.9					
(275. DEG K)	1000	49.8	50.8	52.6	54.0	56.4	59.7	59.8	59.0	58.2	54.5	49.3					
TWET 85. DEG F	1250	47.9	49.5	52.3	54.0	55.8	58.1	58.1	57.9	57.6	54.2	48.0					
(289. DEG K)	1600	47.9	49.4	51.7	53.1	54.8	57.3	57.2	56.4	56.2	52.3	45.9					
BARY 0.69 GM/M3	2000	47.7	49.0	51.9	52.4	54.5	57.5	57.6	56.0	56.9	52.8	46.3					
(.00069, KG/M3)	2500	46.6	48.1	50.6	53.4	55.0	56.7	54.6	52.2	51.8	48.7	43.0					
RPM 7702. RPM	3150	45.3	47.3	49.8	52.4	54.7	57.9	55.1	53.7	54.2	48.8	42.0					
(8151. RAD/SEC)	4000	44.2	46.3	48.8	52.7	55.3	56.7	56.5	55.4	56.8	54.3	42.2					
RPK 7969. RPM	5000	43.5	46.0	48.3	51.4	54.2	56.7	56.8	56.3	59.5	51.8	41.8					
(834. RAD/SEC)	6300	42.9	47.4	50.3	53.8	56.6	58.4	62.1	63.4	62.1	52.8	40.8					
RPB 6825. RPM	8000	42.0	47.8	51.0	54.1	56.0	58.4	63.4	63.9	62.1	52.3	39.8					
(924. RAD/SEC)	10000	39.8	42.6	46.4	49.2	51.7	58.1	57.2	56.4	57.8	44.3	32.4					
NO. OF BLADES: 19	12500	36.3	42.5	47.6	51.5	54.2	56.6	56.0	56.7	56.1	44.9	30.8					
FAN TIP SPEED	16000	34.8	39.5	44.5	48.8	51.9	49.5	50.1	50.8	51.0	38.6	29.2					
670. FT/SEC	20000	30.1	35.8	40.7	44.6	48.3	48.8	53.2	52.1	47.8	32.7	0.0					
	25000	28.3	24.8	31.2	35.4	40.2	37.8	44.8	43.2	37.2	31.8						
	31500	2.8	11.8	18.8	23.8	27.3	29.1	31.5	27.6	21.6	0.0						
	40000				5.8	9.4	6.2	12.4	7.8								
	50000																
	63000																
	80000																
OVERALL SOUND	82.6	84.3	84.4	88.8	89.2	94.6	94.2	94.4	93.9	88.8	85.6						
PWL	93.9	93.9	94.2	98.8	99.8	103.8	104.8	104.8	104.8	97.9	93.4						

BASE 1 FULL SCALE DATA REDUCTION PROGRAM PROG, DATE 4 MONTH 82 DAY 8 AR 076

MODEL SOUND PRESSURE LEVELS (50, DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	30																			
	83																			
RADIAL 17. FT.	90	67.4	68.9	71.7	73.2	73.5	74.5	71.2	66.7	68.2	72.1	73.9								105.8
1 S. MI	100	72.9	75.0	77.5	79.0	79.9	80.5	78.8	69.5	70.6	75.1	78.2								111.2
VEHICLE R855	125	66.0	68.5	71.6	69.3	70.3	69.1	67.8	70.8	70.8	71.7	74.0								104.3
BOEING 7956A	160	63.7	64.2	64.5	65.0	64.0	66.8	67.8	68.0	70.5	72.4	74.2								102.4
LOC SCHENECTADY	200	63.5	63.8	64.6	65.4	66.4	69.9	69.6	70.6	71.9	74.2	75.8								104.1
DATE 81-31-75	250	67.0	67.8	68.3	69.1	69.1	71.6	71.6	72.1	72.6	73.9	74.3								105.2
RUN 72-6	315	67.8	68.8	69.4	69.1	69.9	72.4	71.4	70.9	71.9	72.7	73.3								104.9
T42E R86032	400	66.7	68.2	68.5	69.3	70.0	72.3	71.8	71.5	72.3	73.1	73.0								105.8
BAR 30.1 HG	500	65.6	66.9	67.9	68.5	69.4	72.4	72.4	73.2	73.5	74.0	72.6								105.4
.01342, N/M2)	630	67.6	67.6	68.9	70.1	71.6	74.9	75.1	76.2	75.4	76.0	73.0								107.5
TAMB 35. DEG F	800	66.3	67.4	67.7	69.7	70.9	73.9	74.4	75.0	75.7	75.8	71.6								106.9
(275. DEG K)	1000	65.2	65.8	66.4	70.4	71.6	75.4	76.3	76.9	77.7	76.8	71.5								108.5
THET 89. DEG F	1250	67.4	71.9	72.7	76.5	76.7	79.4	80.9	82.7	83.0	81.8	75.3								113.4
(269. DEG K)	1600	63.7	66.3	68.1	70.4	70.8	74.0	75.1	76.1	76.4	76.2	70.7								107.8
MACT 0.69 GM/M3	2000	60.9	62.4	63.9	64.7	66.4	68.4	68.8	67.7	66.5	68.1	65.8								100.6
.00069 KG/M3)	2500	61.8	63.6	66.1	66.9	68.8	71.5	70.2	67.4	67.0	67.4	65.0								102.1
NFB 9457. RPM	3150	59.8	61.1	65.3	64.7	66.6	70.0	70.2	68.7	72.5	71.9	66.5								102.6
(-971. RAD/SEC)	4000	61.8	63.1	64.3	66.2	66.6	71.0	73.4	73.9	72.6	70.9	70.9								107.4
NFK 5988. RPM	5000	62.0	63.3	65.5	67.1	70.8	72.4	77.1	77.6	80.2	78.1	71.6								109.2
(-385. RAD/SEC)	6300	63.4	64.8	69.0	68.7	71.7	73.6	78.3	80.8	82.8	79.9	72.4								111.8
NFB 8823. RPM	8000	62.4	64.6	69.2	69.1	71.7	73.0	78.2	81.5	84.5	79.7	72.6								111.9
(-924. RAD/SEC)	10000	66.1	69.2	72.9	76.8	79.3	79.4	82.9	83.6	83.6	79.2	73.6								116.2
NO. OF BLADES 19	12500	76.8	79.1	82.9	87.3	91.6	94.1	94.6	93.0	92.3	88.6	81.7								125.5
FAN TIP SPEED	16000	87.2	90.8	93.6	98.3	83.8	81.8	88.3	88.8	88.3	83.3	75.2								119.4
476. FT/SEC	20000	82.5	85.5	87.6	90.3	74.7	73.9	82.2	84.7	85.9	81.9	73.1								115.6
	25000	99.4	91.6	93.5	87.0	71.4	70.3	78.2	81.1	82.3	79.3	70.3								112.7
	31500	97.6	99.6	90.8	85.5	68.9	67.7	76.1	79.1	79.8	76.4	67.5								111.3
	40000	96.0	97.9	97.9	82.9	69.7	64.6	73.7	79.4	76.6	73.6	62.2								110.5
	50000	92.8	94.1	93.7	94.7	98.1	97.6	64.3	67.4	68.6	66.9	55.5								103.7
	63000	87.8	89.2	87.4	87.2	89.3	89.2	96.7	92.2	90.3	94.8	88.8								98.4
	80000	93.1	93.5	91.4	90.3	90.2	92.4	91.7	91.3	90.9	95.5	90.4								98.4
OVERALL MEASURED																				
OVERALL CALCULATED		81.4	83.7	86.9	89.7	93.2	93.2	96.7	97.4	96.8	93.8	88.2								120.3
	PNLB	88.7	90.5	93.2	94.6	96.3	98.2	100.5	101.4	100.1	102.2	96.9								

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BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 02 DAY 6 HR' 0'6

MODEL SOUND PRESSURE LEVELS (90' DEG' F' 70 PERCENT REL' HUM' DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

FREQ'	53' (0.92)	62' (1.08)	72' (1.24)	81' (1.41)	91' (1.58)	101' (1.76)	111' (1.94)	122' (2.13)	133' (2.32)	145' (2.52)	156' (2.73)	0' (0.0)	0' (0.0)	0' (0.0)	0' (0.0)	0' (0.0)	0' (0.0)
50																	
63																	
SIDELINE 200' FT 60	43.8	46.3	49.7	51.6	52.0	52.8	49.1	43.7	43.9	45.8	44.0						
(60.76 MI) 100	49.2	52.2	55.4	57.3	57.9	58.8	54.6	48.5	45.6	48.8	46.4						
VEHICLE R&S3 125	42.2	45.7	49.4	47.8	48.7	47.3	45.5	47.7	46.3	45.8	43.8						
SCRFIG 7596A 160	39.8	41.3	42.3	43.2	43.8	42.9	45.4	45.8	45.9	45.5	43.8						
LOG SCRENECTADY 200	39.8	40.8	42.3	43.4	44.8	47.9	47.2	47.3	47.1	47.9	45.2						
DATE 01-31-75 220	42.9	44.7	46.9	47.1	47.2	49.6	49.1	48.2	47.8	46.8	43.4						
RUN 72-6 315	43.6	45.7	46.9	47.0	47.9	50.2	48.7	47.4	46.9	45.9	42.2						
TAPE 808038 400	42.4	45.8	45.9	47.1	48.0	50.1	49.6	47.9	47.2	45.7	41.6						
BAR 30.1 HG 500	41.2	43.5	45.3	46.2	47.3	50.1	49.8	49.5	48.3	46.5	41.1						
(01342, N/M2) 630	42.5	44.1	46.1	47.0	49.4	52.4	52.2	52.3	50.6	48.8	41.2						
TAMB 35, DEG F 800	41.7	43.8	44.8	47.2	48.6	51.4	51.3	51.0	50.2	47.8	39.4						
(275, DEG K) 1000	40.5	42.1	45.3	47.0	49.1	52.7	53.2	52.8	52.0	48.8	39.1						
THET 35, DEG F 1250	42.4	44.8	49.5	53.7	54.1	56.6	57.6	56.4	57.1	53.4	42.5						
(207, DEG K) 1600	40.2	42.2	44.7	47.4	48.0	51.1	51.5	51.6	50.3	47.8	37.4						
HART 0.69 GM/M3 2000	35.4	38.1	40.4	41.6	43.5	45.2	45.1	43.0	40.1	38.1	32.0						
(.00069, KG/M3) 2500	36.1	39.1	42.3	43.6	45.7	48.2	48.4	46.5	43.3	40.7	35.0						
NF 9457, RPM 3150	38.8	36.3	41.3	41.1	43.2	46.4	46.4	43.4	45.0	42.5	34.5						
(991, RAD/SEC) 4000	36.2	37.8	39.8	42.2	44.8	46.9	48.8	48.2	51.4	48.5	36.2						
NFR 9588, RPM 5000	35.9	37.7	40.8	42.9	46.7	48.2	52.3	51.8	52.3	48.1	35.8						
(985, RAD/SEC) 6300	35.6	38.4	43.5	43.8	46.9	48.6	52.6	53.1	53.6	47.8	36.8						
NFB 8023, RPM 8000	38.8	37.8	42.8	43.1	45.9	47.9	51.4	53.4	51.1	45.8	31.3						
(924, RAD/SEC) 10000	38.8	39.7	44.7	46.3	51.9	51.8	54.5	53.9	51.3	42.8	28.4						
BD' OF BLADES 10 12500	42.1	47.3	52.4	57.3	62.0	62.2	63.8	62.4	56.6	47.7	30.8						
FAN TIP SPEED 16000	39.3	34.8	39.2	44.8	49.9	48.3	53.6	52.8	47.7	36.1	22.6						
479' FT/SEC 20000	37.9	34.8	28.2	32.1	36.8	39.5	48.4	42.1	38.8	26.8	8.3						
25000	6.1	12.9	17.8	21.9	28.8	29.1	31.1	28.9	25.4	11.6							
31500			3.7	10.3	14.3	12.3	10.2	14.6	9.1								
40000																	
50000																	
63000																	
80000																	
OVERALL SPL	52.1	56.1	62.1	63.5	65.8	66.6	67.5	66.7	64.4	65.8	54.6						
PNDB	62.2	66.3	68.4	70.6	72.2	74.3	75.8	75.4	73.1	71.9	61.4						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE - MONTH 4 DAY 9 HR. 14.6

MODEL SOUND PRESSURE LEVELS (59. DEG, F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT.
(5. M)
VEHICLE R-55
CONFIG 75-6R
LOC SCHENECTADY
DATE 2/3/75
RUN 74/2
TAPE
BAR 30.1 HG
(1017. MB)
TAMB 36. DEG F
(275. DEG K)
TACT 26. DEG F
(270. DEG K)
HACT 0.83 GM/M3
(.00083 KG/M3)
NFA 3108. RPM
(325. RAD/SEC)
NFK 3179. RPM
(333. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
271. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	A_2. (1.08)	71. (1.24)	A_1. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	54.0	58.1	61.0	57.9	61.2	60.8	56.5	56.9	58.2	56.7	58.6							93.1
125	62.7	63.9	70.0	62.9	71.9	64.3	58.8	67.9	67.9	59.7	62.3							101.0
160	57.0	57.6	58.4	58.6	58.4	60.3	57.3	58.4	59.4	59.5	59.6							92.8
200	56.5	57.3	58.3	57.6	56.9	60.8	58.3	59.9	60.9	62.2	63.1							93.6
250	56.0	56.8	58.0	58.1	58.2	61.0	60.0	60.9	61.2	61.5	62.1							93.8
315	59.5	61.6	61.5	61.9	60.9	64.0	62.2	62.2	62.9	63.5	63.1							96.3
400	58.0	59.9	59.8	61.9	61.0	64.0	62.5	63.2	63.9	64.2	63.8							96.4
500	57.8	58.9	60.0	61.2	61.5	65.6	65.3	65.7	66.2	67.0	65.9							98.1
630	62.8	63.2	65.1	66.7	67.3	70.9	70.3	70.2	71.2	71.5	69.6							103.0
800	67.1	69.2	69.1	70.9	71.8	75.4	74.8	76.2	76.5	79.0	77.4							108.9
1000	61.9	63.7	65.1	66.5	67.5	71.9	71.3	72.5	73.2	73.8	70.9							104.4
1250	60.2	61.2	63.6	66.3	67.3	71.4	71.8	73.0	73.0	73.1	70.6							104.2
1600	64.2	65.2	66.9	69.1	70.6	74.9	76.0	76.2	79.0	78.1	72.9							108.9
2000	60.4	61.8	63.1	65.9	66.6	71.2	71.3	72.2	72.8	74.4	70.7							104.1
2500	59.9	62.0	63.3	66.1	67.4	72.5	73.3	74.7	75.8	75.6	71.6							105.8
3150	57.9	59.5	60.8	63.1	64.9	70.4	69.7	71.4	73.0	73.3	70.3							103.8
4000	55.1	57.9	58.7	61.6	63.6	68.6	67.9	69.8	72.4	73.8	67.2							102.3
5000	54.5	55.9	57.6	59.5	62.3	66.8	67.0	67.9	71.1	72.0	65.7							100.8
6300	53.7	54.9	55.8	57.9	59.6	65.0	65.2	67.7	68.8	70.3	65.2							99.2
8000	52.8	54.4	54.4	56.5	58.7	64.3	63.9	65.8	68.0	68.7	63.7							98.1
10000	53.4	54.9	54.6	56.6	58.3	64.5	63.8	65.9	67.5	69.3	64.5							98.3
12500	54.2	55.1	55.2	56.8	58.8	62.9	64.2	65.6	67.5	69.3	63.3							98.3
16000	54.4	55.0	54.8	55.6	55.9	61.0	61.0	63.3	64.8	66.3	61.0							96.1
20000	53.9	55.2	55.1	55.6	55.7	59.3	59.6	61.1	62.8	64.0	58.9							94.9
25000	54.5	55.7	55.8	55.6	54.2	57.7	58.5	59.9	61.5	61.6	57.2							94.2
31500	53.7	54.3	54.5	54.7	54.0	57.6	57.2	59.0	60.6	60.7	55.4							94.3
40000	52.4	52.6	53.8	52.7	52.6	55.2	54.9	55.4	56.6	57.6	52.1							93.0
50000	53.4	53.4	54.4	53.6	52.9	55.1	53.9	53.3	53.2	54.7	51.5							94.0
63000	52.8	50.9	53.4	52.0	51.2	53.8	52.2	50.6	50.6	50.9	50.3							94.9
80000	53.7	49.9	50.0	48.4	47.6	49.9	48.3	47.4	46.7	47.1	46.8							95.5
OVERALL MEASURED																		
OVERALL CALCULATED	73.8	75.2	76.9	77.7	79.4	82.8	82.8	84.4	85.5	86.8	82.6							110.4
PNLB	84.0	85.6	86.9	88.9	90.3	94.7	94.8	96.3	97.3	98.2	94.1							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 14.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	32.1	35.4	38.9	36.2	37.6	39.0	34.3	35.9	33.8	30.2	28.5						
125	39.3	41.0	47.9	41.1	50.3	42.5	36.5	44.8	43.4	33.1	32.1						
160	33.1	34.7	36.5	36.8	36.7	38.4	34.9	35.2	34.8	32.7	29.1						
200	32.5	34.4	36.0	35.7	35.1	38.8	35.8	36.6	36.2	35.3	32.4						
250	31.2	33.8	35.6	36.1	36.3	39.0	37.5	37.5	36.3	34.4	31.2						
315	35.3	38.4	39.0	39.8	39.0	41.9	39.6	38.6	38.6	36.2	32.0						
400	33.7	36.6	37.2	39.7	38.9	41.6	39.8	39.5	38.8	36.8	32.9						
500	33.4	35.5	37.4	38.9	39.3	43.3	42.5	42.0	41.8	39.4	34.3						
630	38.3	39.7	42.3	44.3	45.0	48.4	47.4	46.3	45.9	43.8	37.8						
800	42.4	45.5	46.2	48.5	49.4	52.8	51.7	52.2	52.9	51.1	45.2						
1000	37.1	39.9	42.0	43.9	45.1	49.2	48.1	48.3	47.5	45.6	38.4						
1250	35.2	37.3	40.4	43.5	44.7	48.6	48.5	48.7	47.1	44.7	37.8						
1600	39.3	41.1	43.5	46.2	47.9	52.0	52.5	53.7	52.9	49.4	39.6						
2000	35.0	37.5	39.6	42.8	43.7	48.1	47.6	47.5	46.4	45.3	36.9						
2500	34.3	37.5	39.6	42.9	44.3	49.1	49.4	49.8	48.4	48.3	37.4						
3150	31.9	34.7	36.8	39.6	41.5	46.8	45.5	46.1	46.9	45.5	35.4						
4000	28.5	32.6	34.2	37.6	39.8	44.6	43.2	44.0	44.8	43.2	31.3						
5000	27.6	30.3	32.9	35.3	38.2	42.5	42.2	41.9	43.2	40.9	29.8						
6300	26.0	28.5	30.3	32.9	34.8	40.0	39.8	40.8	39.9	38.1	26.7						
8000	23.6	26.8	27.8	30.5	32.8	38.2	37.1	37.7	37.6	34.5	22.4						
10000	22.3	25.5	26.4	29.1	31.8	36.9	35.4	36.8	36.0	32.4	19.3						
12500	20.3	23.2	24.7	26.7	29.3	33.1	33.4	33.0	31.9	28.5	12.3						
16000	15.8	19.0	20.4	22.2	22.8	27.5	26.3	26.4	24.1	19.8	0.6						
20000	9.3	13.7	15.7	17.4	17.8	21.9	19.8	18.5	15.5	8.2							
25000	1.1	6.5	8.4	10.5	9.6	12.4	11.4	9.3	4.6								
31500						2.2											
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	48.6	51.2	53.8	54.8	56.8	59.7	58.1	58.7	56.2	56.8	49.8						
PNDB	57.6	60.5	62.7	65.2	66.8	71.1	70.6	71.1	70.4	68.2	59.2						

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-6A
LOC SCHENECTADY
DATE 2/3/75
RUN 74/2
TAPE
BAR 30.1 HG (1017. N/M2)
TAMB 36. DEG F (275. DEG K)
THEI 26. DEG F (270. DEG K)
RHOT 0.A3 GM/M3 (.00063 KG/M3)
NFA 3108. RPM (325. RAD/SEC)
NFK 3179. RPM (333. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 271. FT/SEC

DC

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PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE - MONTH 4 DAY 9 HR. 14.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	56.5	58.4	61.4	59.2	61.9	61.1	58.0	59.7	61.8	61.8	64.7							94.6
125	63.0	65.7	70.7	69.5	71.5	66.4	61.8	68.5	69.2	63.5	65.4							101.8
160	59.7	60.2	63.4	60.7	61.3	62.6	61.3	62.0	63.5	63.5	64.7							96.8
200	58.7	59.7	59.6	60.2	59.5	63.4	61.8	63.2	64.4	65.5	66.4							98.5
250	59.2	59.7	61.4	61.5	61.5	64.4	63.3	64.2	64.7	65.3	65.6							97.2
315	62.7	64.4	64.6	64.5	64.3	67.2	65.5	65.5	66.2	66.0	66.2							99.5
400	61.5	63.4	63.4	64.7	65.3	67.7	66.5	67.6	66.7	66.6	66.7							99.9
500	60.1	61.2	61.9	63.3	64.3	67.4	67.8	68.0	69.8	68.5	67.7							100.2
630	64.6	64.7	66.4	67.8	69.4	72.2	72.6	72.5	73.5	72.8	71.4							104.9
800	66.4	68.0	68.4	70.8	72.9	76.0	75.8	75.5	76.7	76.8	73.7							108.2
1000	74.1	78.5	77.7	81.6	83.1	87.0	86.1	85.5	87.0	86.6	82.5							118.4
1250	65.4	66.3	69.0	71.6	73.4	77.8	77.1	77.3	78.8	77.4	73.2							109.2
1600	66.4	67.8	69.5	71.4	73.7	77.1	77.1	77.4	77.8	76.6	71.7							109.2
2000	69.7	69.6	71.2	74.9	75.8	79.3	78.1	79.6	82.6	81.4	77.8							112.8
2500	64.7	65.9	69.0	70.7	72.5	77.3	77.0	77.3	78.3	78.7	72.5							109.3
3150	63.7	65.6	67.4	69.8	72.0	77.1	76.5	77.8	78.8	81.9	75.7							110.2
4000	61.6	63.3	64.6	67.7	70.7	74.5	74.9	76.9	78.7	78.3	72.6							106.5
5000	59.8	60.7	63.0	66.1	68.9	73.2	74.1	75.3	76.6	77.2	69.7							104.8
6300	59.0	60.8	61.4	65.5	67.7	72.1	72.2	74.5	77.3	76.9	68.6							104.4
8000	56.5	58.7	60.1	62.6	65.0	69.9	70.4	72.2	75.3	74.0	66.5							104.3
10000	56.7	58.2	59.5	62.8	64.2	70.3	69.6	72.8	75.3	74.0	66.1							104.8
12500	57.2	57.7	59.3	61.9	65.7	70.0	70.0	72.9	74.6	74.3	67.4							104.9
16000	55.6	56.8	57.4	59.7	63.0	67.4	67.3	70.4	72.8	72.1	66.8							102.7
20000	55.5	56.8	56.2	58.2	61.5	64.9	66.3	68.2	70.6	70.0	63.4							101.1
25000	55.5	56.3	55.6	57.7	59.6	63.3	64.5	66.5	68.2	67.1	60.8							99.7
31500	54.5	54.7	54.9	56.3	58.4	63.0	63.3	65.3	66.9	66.8	59.0							99.4
40000	53.7	54.3	54.2	54.8	55.7	59.8	60.1	61.2	63.1	62.4	54.5							97.5
50000	55.4	54.2	55.5	54.9	54.5	58.2	57.7	57.6	58.7	58.5	53.1							96.9
63000	55.6	53.0	55.5	54.4	53.8	56.5	54.7	53.7	54.4	53.9	51.9							97.5
80000	56.9	53.7	55.9	53.2	53.2	56.8	54.6	53.8	53.8	52.7	51.9							101.3
OVERALL MEASURED																		
OVERALL CALCULATED	78.5	81.1	81.7	84.4	86.2	90.8	89.3	89.7	91.4	91.2	86.5							122.3
PNDB	89.2	90.9	92.8	94.5	96.2	100.3	99.9	100.7	102.8	103.5	98.3							

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 6 DAY 9 HR. 14.6

MODEL SOUND PRESSURE LEVELS 159. DEC. F. 78 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	150. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	32.8	35.7	39.3	37.5	43.2	39.4	35.8	36.7	36.5	34.5	34.6						
125	39.2	42.8	44.5	43.7	49.9	44.6	39.5	45.4	44.7	36.8	35.2						
160	35.9	37.3	34.2	38.9	39.6	40.6	38.9	38.8	38.6	36.7	34.2						
200	34.8	36.7	37.3	38.3	37.7	41.4	39.3	39.9	39.7	38.6	35.7						
250	35.2	36.6	39.9	39.5	39.7	42.3	40.7	40.8	39.8	36.2	34.8						
315	38.4	41.3	42.2	42.4	42.3	45.8	42.9	42.0	41.2	39.5	35.1						
400	37.2	40.2	40.8	42.6	43.3	45.5	43.8	43.4	41.6	39.4	35.3						
500	35.7	37.8	39.2	41.8	42.2	45.1	44.2	44.3	43.7	41.8	38.1						
630	40.1	41.2	43.7	45.4	47.1	49.8	49.6	48.7	48.1	45.1	39.8						
800	41.7	44.4	45.5	48.3	50.5	53.5	52.8	51.5	51.2	48.8	41.8						
1000	49.3	54.7	54.7	59.0	61.7	64.4	62.9	61.4	61.3	58.4	50.8						
1250	48.4	52.4	53.8	58.9	59.8	64.3	63.7	63.0	62.1	58.9	48.4						
1600	41.2	43.7	46.1	48.5	51.0	54.1	53.8	53.3	51.7	47.9	38.9						
2000	43.3	45.3	47.7	50.9	52.0	56.2	54.4	54.8	56.2	52.3	43.2						
2500	39.8	41.3	44.2	47.5	49.4	54.8	53.2	52.3	51.7	49.3	38.3						
3150	37.6	40.8	43.4	46.2	48.6	53.5	52.3	51.7	52.8	52.0	40.8						
4000	35.8	37.7	40.1	43.7	46.9	56.5	50.3	51.1	51.1	47.7	36.8						
5000	32.9	35.1	38.3	41.9	46.8	48.9	49.2	49.2	48.7	46.2	33.1						
6300	31.2	33.6	35.9	40.5	42.9	47.1	46.6	47.7	48.4	44.6	31.3						
8000	27.4	30.8	33.5	38.6	39.2	43.8	43.6	44.8	44.9	39.8	27.2						
10000	25.8	28.8	31.3	35.2	38.9	42.7	41.1	42.6	42.6	37.7	22.9						
12500	23.3	25.8	28.6	32.1	36.1	40.2	39.2	40.3	38.9	33.5	16.6						
16000	17.1	20.8	23.8	26.3	29.9	33.9	32.6	33.5	32.1	24.8	9.7						
20000	10.8	14.6	16.8	20.8	23.6	26.6	26.5	25.6	23.3	14.3							
25000	2.2	7.1	9.8	12.8	14.9	18.8	17.4	15.8	11.4								
31500				1.2	3.8	7.6	5.4	2.8									
40000																	
50000																	
63000																	
80000																	
OVERALL SPL	53.3	57.2	58.5	61.5	63.4	68.9	66.7	64.9	64.8	61.9	53.2						
PNDB	63.1	66.3	68.8	71.8	73.8	78.7	76.6	75.4	75.8	73.9	63.3						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 14.0

MODEL SOUND pressure LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
1 S. NI	100	57.7	61.2	62.4	61.0	62.3	62.6	60.0	61.0	62.5	64.5	67.2								96.6
VEHICLE R-ES	125	64.7	64.9	70.4	65.5	71.0	64.1	63.3	66.5	69.2	65.5	67.7								102.0
CONFIG 75-0A	160	61.0	62.7	62.2	67.7	63.9	64.1	63.5	64.0	66.0	66.9	67.9								98.3
LOC SCHENECTADY	200	60.3	61.4	61.4	61.7	62.0	65.4	63.0	65.0	66.7	67.0	69.1								99.6
DATE 2/3/75	250	61.5	62.9	62.9	63.8	63.0	65.9	65.3	65.7	66.7	67.0	67.9								99.1
RUN 74/4	315	64.7	64.2	65.9	64.0	64.3	69.2	67.5	67.5	68.5	68.0	68.9								101.4
TAPE	400	63.5	64.9	65.2	64.5	66.6	69.2	66.3	68.0	69.0	69.0	68.9								101.8
BAR 30.1 MB	500	61.6	62.7	62.9	65.1	63.0	69.4	69.3	70.0	71.2	70.5	69.4								102.2
(1017. N/M2)	630	64.1	65.7	67.4	69.3	70.4	73.5	73.1	73.5	74.2	74.3	71.9								105.9
TAMB 30. DEG F	800	66.6	67.8	67.7	68.4	71.1	74.7	74.3	75.3	76.2	76.3	73.5								107.3
(275. DEG K)	1000	71.1	73.0	75.7	80.8	68.0	84.0	83.0	85.5	86.5	86.3	81.5								117.0
TWET 26. DEG F	1250	68.2	69.9	72.2	76.4	76.4	80.3	80.3	81.1	81.6	81.1	78.0								112.6
(270. DEG K)	1600	69.7	69.6	71.8	73.7	75.5	79.3	78.6	79.6	80.0	79.6	73.2								111.2
HACT 0.03 GM/M3	2000	72.5	73.3	73.5	77.8	78.5	82.8	81.1	82.3	83.1	83.9	77.2								114.8
(0.0803 KG/M3)	2500	67.9	69.1	70.8	74.8	75.5	79.8	78.7	81.0	82.0	81.9	78.7								112.5
NFA 4250. RPM	3150	67.9	69.3	70.2	73.8	76.8	80.6	79.2	80.5	83.0	84.6	77.9								113.3
(446. RAD/SEC)	4000	63.8	64.3	67.1	75.5	72.9	77.5	77.9	79.1	80.9	81.1	73.1								110.8
NFK 4387. RPM	5000	62.3	64.8	65.8	69.6	71.9	74.2	76.1	77.3	79.6	80.9	71.5								109.4
(456. RAD/SEC)	6300	61.8	62.7	63.6	67.2	69.9	73.8	75.8	77.5	79.8	79.6	71.3								108.8
NFB 8823. RPM	8000	59.8	60.5	62.3	65.8	68.8	72.4	73.4	75.2	77.1	77.2	69.8								107.0
(924. RAD/SEC)	10000	58.4	60.7	61.5	65.3	68.2	72.8	73.1	76.0	78.3	77.6	69.8								107.9
NO. OF BLADES 19	12500	58.7	59.7	61.1	65.1	68.4	72.5	73.2	74.9	76.8	77.3	69.1								107.1
FAN TIP SPEED	16000	57.1	58.3	58.9	62.8	65.3	70.7	70.8	73.7	76.1	74.9	67.8								105.7
372. FT/SEC	20000	56.2	56.8	57.5	61.5	63.5	68.7	69.1	71.7	73.9	73.3	64.9								104.2
	25000	55.7	56.8	57.1	59.8	61.8	66.8	67.5	69.5	71.8	70.6	62.8								102.8
	31500	54.8	55.7	55.9	58.1	60.4	64.9	66.8	68.6	70.2	68.9	60.7								102.4
	40000	53.9	54.2	54.9	56.8	57.5	62.6	63.4	64.8	66.1	65.8	58.2								100.2
	50000	53.1	53.9	55.7	55.2	55.2	59.7	60.2	59.6	61.2	61.0	53.3								98.9
	63000	55.6	53.2	55.3	54.1	54.1	57.8	56.2	54.7	56.7	56.6	51.0								98.1
	80000	56.9	55.7	55.9	53.2	53.2	56.9	54.6	53.8	53.6	52.7	51.0								101.6
OVERALL MEASURED																				
OVERALL CALCULATED		70.5	68.7	82.2	85.6	86.6	98.6	98.2	91.6	93.1	93.1	87.3								109.6
	PNDB	91.9	93.1	93.9	97.8	98.6	102.9	102.1	103.4	104.4	104.8	100.0								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PREC. DATE - MONTH 4 DAY 9 HR. 14.0

MODEL SOUND PRESSURE LEVELS (90. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PREC.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	34.1	36.5	40.3	39.3	40.7	49.9	37.6	37.9	36.0	36.0	37.1						
VEHICLE S-55	125	41.0	42.1	40.3	43.7	50.1	44.3	41.0	45.4	44.7	38.0	37.4						
CONFIG 75-4R	160	37.1	39.8	39.9	40.9	41.3	42.3	41.2	41.5	41.3	39.9	37.4						
LOC SCHENECTADY	200	34.0	36.4	39.1	39.8	40.2	43.4	41.3	41.7	42.0	40.8	38.5						
DATE 2/3/75	250	37.4	39.9	40.5	41.9	41.9	43.8	42.7	42.3	41.8	39.9	37.8						
RUN 74/4	315	41.6	43.8	43.4	43.0	44.3	47.8	44.9	44.8	43.5	41.9	37.8						
TAPE	400	39.2	41.7	42.6	44.3	44.5	47.5	45.6	45.1	43.9	42.4	37.8						
BAR 30.1 MB	500	37.2	39.3	40.2	42.7	43.7	47.1	46.5	46.3	46.6	43.8	37.9						
(0.1717. M/P2)	630	41.6	42.2	44.7	47.9	48.1	51.1	50.1	49.7	48.9	46.8	40.1						
TAPE 36. DEG F	800	41.9	43.4	46.3	47.1	48.8	52.2	51.3	51.3	50.7	48.3	41.3						
(2.75. DEG K)	1000	46.3	48.2	52.7	54.2	56.2	61.6	60.8	61.4	60.8	56.1	49.0						
TGET 24. DEG F	1250	43.2	45.1	49.1	52.6	53.8	57.5	57.8	58.0	58.9	52.7	43.2						
(2.76. DEG K)	1600	45.5	45.5	47.6	50.8	52.7	56.4	56.1	56.1	53.6	50.9	46.0						
HACT 0.43 GM/M3	2000	37.8	40.0	40.9	53.9	55.5	59.7	57.4	57.6	56.7	54.8	43.5						
(0.00083 LB/M3)	2500	42.3	44.6	46.2	50.7	52.4	56.5	56.9	56.1	55.4	52.5	41.5						
MFA 4250. RPM	3150	41.9	44.5	46.2	50.2	52.6	57.0	56.1	55.2	54.8	54.8	43.0						
(445. M/SEC)	4000	37.3	41.3	42.8	46.5	49.1	53.5	53.3	53.8	53.3	50.5	37.1						
MFC 4587. RPM	5000	35.6	38.4	41.0	45.4	47.8	51.9	51.4	51.8	51.7	49.8	36.9						
(480. MAB/SEC)	6300	33.2	36.3	38.2	42.3	45.2	48.9	49.4	50.7	50.1	47.4	32.8						
MFB 4823. RPM	8000	29.9	32.9	35.2	39.6	42.2	47.3	48.9	47.8	48.4	45.8	30.2						
(504. MAB/SEC)	10000	27.3	31.3	33.5	37.7	40.9	46.8	44.6	46.1	46.3	43.7	34.6						
NO. OF BLADES 19	12500	24.8	27.8	30.8	35.3	38.9	42.7	42.4	42.3	41.2	38.3	18.2						
FAN TIP SPEED	16000	16.6	22.3	24.5	28.5	32.2	37.1	36.1	36.8	36.4	27.6	7.6						
372. FT/SEC	20000	11.6	18.2	19.1	22.2	25.6	30.3	29.3	29.1	28.6	17.5							
	25000	2.4	7.6	10.5	13.9	17.2	21.8	20.6	18.8	14.2	2.8							
	31500				2.9	5.8	10.4	8.2	8.8									
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL VALUE	PWL	94.2	96.9	98.9	99.5	99.8	97.3	96.2	96.8	96.3	93.8	85.9						
	PNdB	85.9	88.3	89.9	73.5	73.3	70.3	77.9	78.1	78.3	78.1	68.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE - MONTH 4 DAY 9 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
80																		
100	72.0	75.2	77.7	79.2	78.8	79.4	74.0	68.5	71.7	74.5	76.2							110.6
125	65.5	67.2	70.9	68.0	71.3	70.1	67.8	71.0	72.0	71.5	74.7							104.5
160	64.5	65.2	65.7	66.0	66.1	67.9	68.0	69.5	71.7	72.8	74.9							104.2
200	63.0	63.9	64.9	65.7	66.5	70.9	69.5	71.0	71.9	74.0	75.9							104.2
250	66.5	67.4	68.6	68.7	69.3	71.9	71.5	72.2	73.4	73.5	74.9							105.3
315	69.0	70.2	70.9	70.7	70.3	73.4	72.0	72.3	73.7	74.0	74.7							106.2
400	67.8	69.4	69.7	70.5	70.8	74.2	73.0	73.3	73.7	74.0	74.2							106.4
500	65.8	67.7	67.9	69.8	69.8	74.0	73.5	74.5	75.2	74.6	74.2							106.6
630	69.4	70.0	71.4	73.3	74.4	77.5	77.6	77.8	78.2	77.1	75.2							109.8
800	69.6	70.7	71.5	72.8	74.1	78.0	77.8	78.3	79.5	78.6	74.7							110.4
1000	69.9	72.0	73.0	75.1	76.6	81.3	80.8	81.5	82.5	81.6	76.2							113.2
1250	82.9	83.3	86.7	89.6	91.7	93.8	92.1	91.0	91.8	89.1	85.2							124.5
1600	77.4	78.3	80.2	83.2	85.0	88.1	87.1	86.8	87.3	85.6	80.0							119.2
2000	72.9	74.6	76.0	78.2	80.5	85.1	84.3	84.0	84.8	83.6	78.2							116.2
2500	75.7	77.1	78.2	81.2	85.0	89.3	90.0	91.0	90.5	87.9	82.4							121.4
3150	71.9	74.1	76.1	78.5	82.3	86.3	85.7	86.7	87.7	86.4	79.6							118.2
4000	71.0	74.2	75.8	78.7	80.9	85.2	84.6	87.6	89.4	85.8	78.5							118.3
5000	69.0	70.9	72.7	75.9	78.9	83.6	83.3	84.7	86.6	83.0	76.0							116.0
6300	67.2	69.4	71.1	74.9	77.4	82.0	82.2	84.0	86.5	82.6	76.2							115.3
8000	64.2	67.5	68.8	72.8	75.7	80.1	79.9	82.6	83.5	81.4	75.0							113.3
10000	64.4	67.1	69.1	72.7	76.1	80.8	80.8	83.2	85.0	81.6	74.5							114.3
12500	64.1	66.1	67.8	71.8	75.9	80.0	80.4	82.4	83.6	80.3	73.6							113.0
16000	61.6	63.5	65.3	69.4	72.7	77.6	78.5	81.4	82.8	78.8	72.5							112.4
20000	60.4	62.4	64.1	68.4	71.7	76.4	78.0	80.6	82.8	78.7	71.6							112.4
25000	58.7	60.0	62.3	66.7	69.5	74.7	75.4	77.9	79.2	75.3	68.2							110.1
31500	57.2	58.6	60.5	65.8	68.6	73.9	74.5	76.5	78.1	74.0	65.9							109.0
40000	55.6	55.6	58.1	62.0	64.4	70.2	71.6	72.7	74.6	70.8	60.2							107.7
50000	55.8	54.6	56.9	58.1	60.6	65.9	67.1	67.0	69.1	66.5	56.0							104.8
63000	55.5	53.6	56.0	54.5	55.5	59.6	60.4	60.1	61.6	59.6	52.6							101.2
80000	57.6	60.4	55.8	54.4	54.4	56.4	56.8	54.9	56.1	54.1	52.1							103.0
OVERALL MEASURED																		
OVERALL CALCULATED	86.4	87.8	89.9	92.6	94.8	98.0	97.3	97.9	98.8	96.3	91.8							120.9
PNDB	97.4	99.1	100.8	103.4	106.0	110.0	110.6	111.0	111.4	109.1	104.2							

O.C.

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 9 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE QCSS
CONFIG 75-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/5
TAPE
BAR 30.1 IN HG (101717. N/M2)
TAMB 38. DEG F (276. DEG K)
TSET 27. DEG F (270. DEG K)
HACT 6.69 GM/M3 (.00669 KG/M3)
NFA 5422. RPM (568. RAD/SEC)
NFK 5535. RPM (580. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 473. FT/SEC

FREQ.	50. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	48.3	52.5	55.6	57.5	57.2	57.7	51.8	45.4	47.3	48.0	46.1						
125	41.7	44.4	48.8	46.2	49.7	48.3	45.5	47.9	47.4	44.8	44.4						
160	40.6	47.3	43.4	44.1	44.3	46.0	45.7	46.3	47.1	45.9	44.4						
200	39.3	40.9	42.6	43.8	44.7	48.9	47.1	47.7	47.2	47.1	45.2						
250	42.4	44.4	46.3	46.7	47.4	49.8	49.0	48.8	48.6	46.4	44.0						
315	44.8	47.0	48.4	48.6	48.3	51.3	49.4	48.7	48.2	46.8	43.6						
400	43.5	46.2	47.1	48.3	48.8	52.0	50.3	49.8	48.6	46.6	42.8						
500	41.4	44.3	45.3	47.5	47.7	51.6	50.7	50.8	50.8	47.0	42.6						
630	44.8	46.5	48.7	50.9	52.1	55.1	54.6	53.9	52.9	49.3	43.4						
800	44.9	47.1	48.5	50.3	51.8	55.5	54.8	54.3	54.0	50.6	42.6						
1000	45.1	48.2	49.9	52.5	54.2	58.6	57.6	57.4	56.8	53.4	43.7						
1250	47.9	50.4	53.6	56.9	58.1	61.0	60.7	60.7	59.6	56.7	52.4						
1600	52.2	54.2	56.9	60.3	62.2	65.1	63.8	62.3	61.2	58.9	46.7						
2000	47.5	50.3	52.4	55.1	57.5	61.9	60.8	59.3	58.4	54.6	44.5						
2500	50.0	52.6	54.5	58.0	61.2	66.0	66.1	66.1	63.9	58.5	48.2						
3150	45.9	49.2	52.1	54.9	58.6	62.7	61.5	61.4	60.2	56.5	44.7						
4000	44.5	48.9	51.3	54.7	57.1	61.2	60.0	61.8	61.8	59.2	42.8						
5000	42.1	45.3	48.0	51.7	54.8	59.4	58.4	58.7	58.6	54.9	39.3						
6300	39.4	43.0	45.8	50.0	52.6	57.1	56.6	57.1	57.6	50.3	37.8						
8000	35.1	39.8	42.2	46.8	49.9	54.0	53.1	54.4	53.1	47.2	33.7						
10000	33.3	37.8	41.0	45.2	48.8	53.2	52.3	53.3	52.8	44.7	29.3						
12500	30.2	34.3	37.3	42.0	46.3	50.1	49.6	49.8	48.1	39.5	22.6						
16000	23.0	27.5	31.0	36.0	39.6	44.1	43.8	44.5	42.1	31.5	12.1						
20000	15.8	21.0	24.8	30.2	33.8	38.0	38.2	38.8	35.5	23.0							
25000	5.3	10.8	15.7	21.6	24.9	29.8	28.3	27.3	22.4	7.5							
31500			3.4	10.6	14.0	18.8	16.6	14.8	7.3								
40000																	
50000																	
63000																	
80000																	
OVERALL CALCULATED	61.2	63.4	66.6	69.6	71.5	74.8	73.2	72.5	71.5	66.6	56.2						
PNDB	71.5	74.3	77.0	80.1	82.7	86.5	85.9	85.8	84.6	79.4	69.6						

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650

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 4 DAY 9 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	78.7	79.4	81.7	82.5	81.0	81.1	76.3	71.5	71.0	74.5	76.9							113.4
125	66.5	67.7	71.4	68.7	71.3	70.4	68.0	71.5	72.5	72.5	75.7							105.0
160	65.0	65.7	66.4	66.7	66.8	69.1	69.0	70.5	72.5	73.8	75.9							104.1
200	65.0	64.7	66.4	67.2	68.3	71.9	71.5	72.7	73.9	75.8	77.4							105.8
250	67.0	68.2	68.9	69.5	69.8	72.6	71.8	72.5	73.7	74.5	75.9							105.8
315	69.2	70.9	71.1	71.5	71.5	74.7	73.0	73.0	74.0	75.0	75.1							107.0
400	68.5	69.9	69.9	71.2	71.3	74.7	73.3	73.7	74.2	74.8	74.9							106.9
500	66.8	68.2	68.9	70.0	71.1	74.9	74.5	75.0	75.7	75.5	75.2							107.4
630	70.1	70.2	72.2	73.8	75.1	78.5	78.3	78.8	78.7	77.8	76.2							110.6
800	70.1	71.2	71.9	73.3	74.9	78.5	78.1	79.0	79.5	79.1	75.2							110.8
1000	70.4	72.2	73.2	75.3	76.6	81.3	81.1	82.0	82.7	82.1	78.5							113.5
1250	80.4	82.5	84.7	86.9	87.9	88.8	88.3	88.6	89.5	88.9	81.5							121.4
1600	81.5	83.1	84.7	87.4	88.5	89.6	89.1	89.3	89.6	88.9	81.5							121.9
2000	74.0	74.9	77.0	79.2	81.5	85.8	85.1	84.8	85.1	84.2	79.3							116.9
2500	75.0	76.6	80.3	82.8	84.3	88.1	88.8	89.1	89.3	87.4	81.5							120.4
3150	75.2	76.6	80.5	83.3	84.8	88.1	89.0	89.8	89.3	88.7	82.5							120.8
4000	71.4	74.3	75.6	78.8	81.2	85.8	85.7	87.7	89.2	87.1	79.1							118.7
5000	69.6	71.8	73.6	77.0	80.4	84.5	84.6	86.1	86.9	84.8	76.6							117.0
6300	68.3	70.5	72.9	76.3	79.0	83.6	84.3	85.6	86.8	84.2	77.3							116.6
8000	65.6	68.3	71.4	74.7	78.8	82.2	81.7	84.2	85.1	83.3	76.1							115.0
10000	64.7	68.0	70.0	73.8	77.8	81.9	82.1	83.8	85.6	82.4	75.4							115.1
12500	64.5	67.0	69.2	73.4	77.5	81.6	82.0	83.5	85.1	82.1	75.4							115.0
16000	62.5	64.4	67.0	70.5	74.6	79.2	80.3	82.0	83.4	79.9	73.9							113.4
20000	61.3	63.1	65.8	69.6	73.1	78.3	79.7	81.7	83.4	80.1	73.0							113.5
25000	59.3	61.4	63.4	68.1	71.2	76.6	77.3	79.6	80.3	77.0	70.1							111.7
31500	58.4	59.8	62.5	66.7	70.0	75.8	75.6	78.4	79.8	76.1	67.8							111.6
40000	55.5	56.8	59.5	63.1	66.1	71.9	72.7	74.1	76.2	72.2	61.6							109.2
50000	55.5	54.6	57.9	59.3	61.8	67.8	69.1	69.0	69.6	67.6	57.2							106.2
63000	55.7	53.6	55.7	55.0	57.8	60.8	62.1	61.1	63.0	61.1	53.3							102.4
80000	57.8	60.6	56.0	54.6	54.9	58.7	58.5	55.9	56.8	55.5	52.5							103.5
OVERALL MEASURED																		
OVERALL CALCULATED	87.2	88.8	91.0	93.3	94.7	97.4	97.4	98.2	99.0	97.5	91.7							130.1
PNDB	98.8	100.5	102.7	105.2	106.9	110.2	110.5	111.3	111.6	110.5	105.0							

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OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 14.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	55.1	56.7	59.6	60.8	59.5	59.4	54.1	48.4	46.5	48.0	46.8						
125	42.7	44.9	49.3	46.9	49.5	48.6	45.7	48.4	47.9	45.8	45.4						
160	41.1	42.8	44.2	44.9	45.1	47.3	46.7	47.3	47.8	46.9	45.4						
200	41.0	41.7	44.1	45.3	46.5	49.9	49.1	49.4	49.2	48.8	46.7						
250	42.9	45.1	46.5	47.5	47.9	50.6	49.2	49.1	48.4	47.4	45.0						
315	45.1	47.8	48.7	49.4	49.6	52.5	50.4	49.5	49.0	47.8	44.1						
400	44.2	46.7	47.3	49.1	49.3	52.4	50.6	50.1	49.1	47.4	43.6						
500	42.4	44.8	46.2	47.7	48.9	52.6	51.7	51.3	50.5	48.0	43.6						
630	45.6	46.7	49.4	51.4	52.9	56.1	55.4	54.9	53.4	50.1	44.4						
800	45.4	47.6	49.0	50.8	52.5	56.0	55.0	55.0	54.0	51.1	43.1						
1000	45.6	48.5	50.2	52.7	54.2	58.6	57.9	57.9	57.1	53.9	44.0						
1250	55.4	56.6	61.6	64.1	65.3	66.0	65.0	64.3	63.6	60.4	48.7						
1600	56.2	59.0	61.4	64.5	65.7	66.6	65.6	64.0	63.4	60.2	48.2						
2000	48.5	50.6	53.5	56.2	58.6	62.7	61.4	60.1	58.7	55.1	45.5						
2500	49.3	52.1	56.5	59.5	61.2	64.8	64.9	64.1	62.7	58.1	47.3						
3150	49.2	51.8	56.5	59.7	61.4	64.5	64.9	64.5	62.3	58.8	47.5						
4000	44.8	49.0	51.2	54.6	57.4	61.8	61.1	61.9	61.6	56.9	43.1						
5000	42.7	46.2	48.8	52.7	56.4	60.2	59.7	60.0	59.8	53.8	40.2						
6300	40.6	44.1	47.5	51.4	54.2	58.7	58.7	58.7	57.9	51.9	38.9						
8000	36.4	40.7	44.8	48.6	51.0	56.1	54.9	56.0	54.7	49.1	34.8						
10000	33.7	38.7	41.8	46.3	50.4	54.3	53.7	53.9	53.1	45.5	30.2						
12500	30.6	35.1	38.6	43.7	47.9	51.8	51.2	50.9	49.5	41.3	24.5						
16000	23.9	28.4	32.6	37.1	41.5	45.7	45.6	45.1	42.7	32.7	13.5						
20000	16.7	21.6	26.4	31.6	35.2	39.9	39.9	39.2	36.1	24.4	0.2						
25000	6.0	12.2	16.9	23.0	26.5	31.4	30.2	28.9	23.5	9.1							
31500			5.3	11.5	15.4	20.5	17.8	15.9	9.0								
40000						1.5											
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.2	64.8	67.6	70.2	71.5	73.8	73.0	72.6	71.4	67.8	58.3						
PNDB	73.0	75.9	78.7	81.7	83.4	86.6	86.3	86.0	84.4	80.6	70.1						

SIDELINE 200. FT. (60.96 M)
VEHICLE R=55
CONFIG 75-6R
LCC SCHENECTADY
DATE 2/3/75
RUN 74/6
TAPE
BAR 30.1 HG (101717. N/M2)
TAMB 37. DEG F (278. DEG K)
TWET 27. DEG F (270. DEG K)
HACT 0.99 GM/M3 (.00099 KG/M3)
NFA 8655. RPM (592. RAD/SEC)
NFK 5779. RPM (605. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 494. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 9 HR. 14.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. MI)
VEHICLE R-55
CONFIG 75-6R
LOC SCHENECTADY
DATE 2/3/75
RUN 74/7
TAPE
BAR 30.1 HG (01717. N/M2)
TAMB 37. DEG F (276. DEG K)
THET 27. DEG F (270. DEG K)
HACT 0.99 GM/M3 (.00099 KG/M3)
NFA 5889. RPM (617. RAD/SEC)
NFK 6018. RPM (630. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 514. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
50																			
63																			
80																			
100	74.2	73.2	74.7	77.7	76.9	74.9	70.0	68.7	71.5	74.5	77.9								106.8
125	67.0	69.2	71.4	70.4	71.9	71.7	68.8	72.5	73.2	73.8	76.2								105.8
160	66.8	66.9	66.9	67.9	67.9	70.2	70.0	71.5	73.5	74.9	76.9								103.1
200	65.7	66.2	67.4	68.7	69.2	73.9	72.3	74.5	75.7	77.3	79.1								107.4
250	68.2	68.9	69.9	70.7	71.4	73.4	72.8	73.2	74.4	75.5	76.9								104.8
315	70.7	71.4	71.9	72.4	72.9	75.7	73.5	74.0	75.0	76.0	77.1								106.0
400	69.3	70.7	70.7	72.2	73.1	75.2	74.5	74.7	75.7	76.0	76.7								104.0
500	67.6	68.7	69.4	71.2	72.4	75.7	75.0	76.0	76.7	76.5	75.7								108.2
630	70.8	71.2	72.9	75.2	76.2	79.5	79.0	80.0	80.2	79.6	77.2								111.8
800	71.4	72.0	73.2	74.5	76.2	79.2	79.1	80.0	80.2	79.8	76.2								111.7
1000	70.9	72.5	73.7	76.3	78.0	82.3	81.8	82.8	84.2	82.3	77.5								114.4
1250	75.4	77.3	79.5	81.8	83.8	89.3	87.8	88.1	86.8	86.1	81.0								119.6
1600	81.5	84.6	85.7	87.9	89.3	95.6	94.1	93.1	89.8	89.2	85.5								125.1
2000	75.5	76.4	78.0	80.7	82.8	86.9	86.1	85.8	86.3	84.9	80.0								118.0
2500	75.0	75.9	79.3	82.5	84.9	88.9	87.8	87.6	88.8	86.7	80.0								119.9
3150	77.7	79.6	83.0	86.7	89.1	90.6	89.8	91.5	92.3	89.4	83.5								123.0
4000	72.1	74.6	78.4	80.2	82.8	87.0	87.2	88.2	88.7	86.3	79.8								116.2
5000	71.1	72.8	75.1	79.2	82.0	86.0	86.1	87.3	88.4	84.8	78.5								116.3
6300	69.8	72.0	75.7	79.2	81.8	86.1	85.8	88.6	88.8	84.2	77.8								116.7
8000	67.3	69.8	71.9	76.4	79.4	83.7	83.5	85.7	86.6	83.3	76.3								114.4
10000	66.2	69.0	71.3	76.3	79.1	83.2	83.6	85.1	86.6	82.4	76.4								116.3
12500	66.8	68.3	71.4	75.4	78.3	83.1	83.5	86.2	86.4	82.4	75.9								116.6
16000	63.5	65.4	68.2	73.0	76.0	80.3	81.3	84.2	85.4	79.9	74.9								115.0
20000	62.6	64.3	66.8	72.0	75.2	79.8	81.2	83.7	85.7	80.6	74.0								115.3
25000	60.3	62.4	64.9	70.5	73.0	78.4	79.1	80.6	82.3	78.0	70.6								113.2
31510	58.9	61.0	63.7	68.9	71.8	77.6	77.6	79.1	80.8	76.4	68.5								112.8
40000	56.3	57.3	60.5	65.8	68.2	73.7	74.5	75.1	77.5	72.7	62.3								110.6
50000	55.8	55.3	57.9	62.5	64.7	70.1	70.8	70.0	72.1	68.9	57.7								108.0
63000	55.5	53.8	55.9	61.2	61.8	65.8	63.6	62.8	64.5	61.3	53.8								104.9
80000	57.8	61.9	56.0	63.1	63.2	65.9	57.0	56.9	58.3	58.0	52.3								107.9
OVERALL MEASURED																			
OVERALL CALCULATED	86.7	88.8	90.6	93.5	95.5	99.9	99.0	99.7	99.9	97.4	92.8								131.4
PNDB	99.6	101.4	103.9	107.2	109.4	112.2	111.5	112.7	113.2	110.9	105.9								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 14.8

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-6F
LCC SCHEREDTADY
DATE 2/3/75
RUN 74/7
TAPE
BAR 30.1 HG (01717. N/M2)
TAMB 37. DEG F (276. DEG K)
TWET 27. DEG F (270. DEG K)
HACT 0.99 GM/M3 (.00099 KG/M3)
NFA 5889. RPM (617. RAD/SEC)
NFK 6018. RPM (630. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED 5514. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)
FREQ.												
50												
63												
80												
100	50.6	50.5	52.4	56.0	55.3	53.2	47.8	45.7	47.0	48.0	47.8	
125	43.2	46.4	49.3	48.6	50.2	49.8	46.5	49.4	48.7	47.1	45.9	
160	42.1	44.0	44.7	46.1	46.2	48.3	47.7	48.3	48.8	47.9	46.4	
200	41.8	43.2	45.1	46.7	48.1	51.9	49.8	51.2	51.0	50.3	48.5	
250	44.2	45.8	47.5	48.7	49.5	51.3	50.2	49.8	49.6	48.4	46.0	
315	46.6	48.3	49.4	50.3	50.9	53.5	50.9	50.5	50.0	48.8	46.1	
400	45.0	47.4	48.1	50.0	51.1	53.0	51.8	51.1	50.6	48.8	45.3	
500	43.2	45.3	46.7	48.9	50.3	53.4	52.2	52.3	51.5	49.0	44.1	
630	46.3	47.7	50.2	52.9	53.9	57.1	56.1	56.2	54.9	51.8	45.4	
800	46.7	48.4	50.3	52.0	53.9	56.7	56.0	56.0	54.7	51.6	44.1	
1000	46.1	48.7	50.7	53.7	55.5	59.6	58.6	58.7	58.6	54.1	45.0	
1250	50.4	53.4	56.3	59.1	61.2	66.5	64.5	63.8	60.9	57.7	48.2	
1600	56.2	60.5	62.4	65.0	66.5	72.6	70.6	68.6	63.7	60.4	52.2	
2000	50.0	52.1	54.5	57.6	59.9	63.7	62.4	61.1	59.9	55.9	46.3	
2500	49.3	52.4	55.5	59.2	61.7	69.6	63.9	62.6	62.2	57.3	45.8	
3150	51.7	54.8	59.0	63.2	65.7	67.0	65.6	66.3	65.3	59.6	48.5	
4000	45.6	49.3	51.9	56.9	59.0	63.0	62.6	62.4	61.1	55.8	43.6	
5000	44.2	47.2	50.3	54.9	58.0	61.7	61.2	61.3	60.5	53.8	41.9	
6300	42.1	45.6	50.2	54.3	57.1	61.2	60.2	61.7	59.9	51.9	39.4	
8000	38.2	42.2	48.3	50.3	53.6	57.6	56.7	57.5	56.2	49.1	36.0	
10000	35.2	39.7	43.1	48.7	51.8	55.6	55.2	55.1	54.1	45.9	31.2	
12500	32.8	36.4	40.9	45.6	48.8	53.3	52.7	53.6	50.8	41.6	28.8	
16000	24.9	29.4	33.9	39.6	42.8	46.7	46.6	47.3	44.7	32.7	14.5	
20000	17.9	22.9	27.4	33.8	37.3	41.4	41.4	41.2	38.4	24.9	1.2	
25000	7.0	13.2	18.4	25.4	28.4	33.1	32.0	29.9	25.5	10.1		
31500		0.4	6.6	13.7	17.2	22.2	19.8	16.6	10.0			
40000						3.3	0.8					
50000												
63000												
80000												
OVERALL CALCULATED	61.4	64.4	66.9	70.1	72.1	76.3	74.7	74.0	72.0	67.5	59.5	
PNDB	73.5	76.8	79.9	83.7	86.0	88.9	87.3	87.4	86.2	81.0	71.1	

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 9 HR. 14.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. M)
VEHICLE R-55
CONFIG 75-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/8
TAPE
BAR 30.1 HG (01717. N/M2)
TAMB 37. DEG F (276. DEG K)
THET 27. DEG F (270. DEG K)
HACT 0.99 GM/M3 (.00099 KG/M3)
NFA 6197. RPM (649. RAD/SEC)
NFK 6333. RPM (663. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 561. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PNL
50																		
63																		
80																		
100	76.0	76.6	74.6	73.4	72.4	72.4	69.1	69.4	72.7	76.3	79.9							108.4
125	68.3	70.4	72.4	71.9	72.9	72.7	70.9	71.4	74.7	76.1	79.1							107.5
160	68.3	68.6	68.9	71.4	69.1	71.4	71.9	73.2	75.0	77.3	78.9							107.1
200	67.0	67.9	68.9	71.2	70.4	73.9	73.4	75.2	76.5	79.1	80.3							108.5
250	69.3	70.4	71.9	73.9	72.4	75.4	74.4	75.4	76.2	77.8	78.8							108.8
315	72.1	73.4	73.6	76.2	74.6	76.4	75.6	75.4	76.7	78.1	78.3							109.8
400	70.8	72.1	71.9	73.4	74.1	77.2	75.9	76.4	77.0	78.1	78.6							109.6
500	69.4	70.4	70.9	72.2	73.4	77.0	76.1	76.9	78.5	78.1	77.4							109.5
630	72.9	72.9	74.2	76.5	77.4	81.0	80.6	80.7	81.3	80.9	78.4							113.0
800	72.4	72.9	73.9	75.7	76.9	80.7	80.1	80.7	81.5	80.6	77.4							112.8
1000	72.2	73.9	74.4	77.0	79.2	83.3	82.9	84.0	84.8	83.6	78.2							115.4
1250	74.8	75.7	78.2	81.8	84.6	88.3	87.7	87.2	86.8	86.2	80.2							119.2
1600	82.8	83.8	85.7	92.9	94.8	99.1	98.7	97.2	94.3	93.7	87.2							129.2
2000	77.8	78.6	79.7	82.7	84.8	89.1	88.4	88.5	87.8	86.5	80.7							120.1
2500	76.3	77.8	80.0	82.7	84.9	89.4	89.2	88.7	89.1	87.5	80.4							120.6
3150	82.0	85.3	87.5	87.7	89.9	93.4	96.4	98.7	95.6	93.5	85.7							127.6
4000	73.7	76.0	77.9	81.2	84.1	88.0	88.8	88.8	90.2	87.2	80.3							120.4
5000	73.9	75.5	78.3	82.4	85.5	88.5	88.4	89.7	90.4	86.6	79.7							120.7
6300	71.6	74.7	77.2	82.2	83.8	88.6	87.4	88.7	89.8	85.0	79.0							119.6
8000	68.4	71.5	74.4	78.1	80.4	85.2	85.1	86.9	87.6	84.9	78.3							117.8
10000	68.8	71.0	73.8	78.0	80.6	84.9	85.5	86.7	88.9	84.3	77.6							118.6
12500	68.3	70.2	72.2	76.9	80.6	84.9	85.4	89.4	87.9	84.2	77.6							118.8
16000	66.8	67.8	70.2	74.7	78.2	83.0	83.4	85.1	86.6	81.5	75.3							116.8
20000	65.1	66.8	69.5	74.5	77.4	82.0	83.7	85.9	87.7	82.7	75.5							117.5
25000	63.6	65.3	67.4	72.0	75.0	79.9	81.7	82.2	84.6	80.0	72.8							115.3
31500	62.2	63.7	66.0	71.1	73.8	78.8	79.7	81.6	82.5	78.7	70.5							114.7
40000	60.6	61.5	63.5	67.6	70.2	75.7	77.1	77.2	79.3	75.0	64.8							112.7
50000	62.1	60.8	62.6	63.7	66.4	71.1	73.2	72.6	73.6	70.9	60.9							110.0
63000	63.5	60.5	62.2	61.5	62.3	66.1	66.7	65.7	66.6	64.9	59.0							107.3
80000	66.9	63.1	65.8	63.1	63.2	65.9	64.6	63.6	62.9	63.1	61.7							111.2
OVERALL MEASURED																		
OVERALL CALCULATED	88.7	90.5	92.3	96.1	98.2	102.2	102.6	103.2	102.8	99.8	94.2							134.1
PNDB	102.5	104.9	106.9	108.8	110.7	114.6	115.8	117.2	115.6	113.7	107.6							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 14.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	52.4	53.9	52.6	51.7	50.8	50.7	46.9	46.3	48.3	49.8	49.8						
VEHICLE R-55	125	44.5	47.6	50.2	50.1	51.2	50.8	48.6	50.3	50.2	49.4	48.9						
CONFIG 75-6R	160	44.4	45.7	46.7	49.6	47.4	49.5	49.5	49.9	50.3	50.5	48.4						
LOC SCHENECTADY	200	43.1	44.9	46.6	48.2	48.6	51.9	50.9	51.8	51.7	52.1	49.7						
DATE 2/3/75	250	45.2	47.3	49.5	51.9	50.5	53.3	51.8	52.0	51.4	50.7	48.0						
RUN 74/6	315	47.9	50.2	51.2	54.1	52.7	54.3	53.0	51.9	51.8	50.8	47.3						
TAPE	400	48.8	48.9	49.3	51.3	52.1	55.0	53.2	52.4	51.9	50.7	47.3						
BAR 30.1 HG	500	45.0	47.0	48.2	49.9	51.3	54.6	53.3	53.2	53.3	50.5	45.8						
(101717. N/M2)	630	48.4	49.4	51.4	54.1	55.2	58.6	57.7	56.8	55.9	53.1	46.6						
TAMB 37. DEG F	800	47.8	49.3	51.0	53.3	54.6	58.2	57.1	56.7	56.0	52.7	45.3						
(276. DEG K)	1000	47.4	50.2	51.4	54.4	56.7	60.6	59.7	59.8	59.1	55.5	45.7						
TWET 27. DEG F	1250	49.8	51.8	55.1	59.1	61.4	65.5	64.3	62.9	60.9	57.8	47.4						
(270. DEG K)	1600	57.6	59.7	62.4	70.0	72.0	76.1	75.2	72.7	68.2	65.0	53.9						
MACT 0.99 GM/M3	2000	52.3	54.3	56.2	59.6	61.9	66.0	64.7	63.8	61.5	57.4	47.0						
(.00099 KG/M3)	2500	52.6	53.3	56.3	59.5	61.7	66.1	65.3	63.8	62.5	58.1	46.2						
NFA 6197. RPM	3150	56.0	60.5	63.4	64.2	66.5	69.8	72.2	73.4	68.6	63.6	50.7						
(649. RAD/SEC)	4000	47.1	50.7	53.4	57.2	60.3	64.0	64.1	63.1	62.6	56.0	44.3						
NFK 6333. RPM	5000	47.0	49.9	53.6	56.2	61.5	64.2	63.6	63.7	62.5	58.6	43.1						
(663. RAD/SEC)	6300	43.9	48.3	51.7	57.3	59.1	61.7	61.7	61.9	60.7	52.7	40.6						
NFD 8823. RPM	8000	39.3	43.9	47.8	52.1	54.6	59.1	58.3	58.7	57.2	50.7	37.0						
(924. RAD/SEC)	10000	37.7	41.8	45.6	50.5	53.3	57.3	57.0	56.8	56.3	47.4	32.4						
NO. OF BLADES 15	12500	34.4	38.3	41.6	47.1	51.0	55.0	54.6	56.8	52.3	43.4	26.7						
FAN TIP SPEED	16000	27.5	31.6	35.9	41.3	45.1	49.5	48.7	48.2	46.0	34.2	14.0						
541. FT/SEC	20000	20.5	25.3	30.1	36.3	39.5	43.7	43.9	43.3	40.4	26.9	2.7						
	25000	10.3	16.1	20.9	28.9	30.4	34.6	34.5	31.6	27.8	12.2							
	31500		3.1	8.8	16.0	19.2	23.5	21.9	19.0	11.6								
	40000					0.0	9.3	3.3										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		63.2	66.0	68.4	72.6	74.9	78.7	78.4	77.7	74.3	70.1	60.9						
PNDB		76.4	80.1	82.8	85.5	87.5	91.3	91.6	92.0	88.6	83.9	72.8						

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROC. DATE = MONTH 4 DAY 9 HR. 14.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	63. (1.06)	73. (1.24)	83. (1.41)	93. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	72.0	75.4	73.6	69.4	69.4	76.2	75.4	74.2	75.2	77.8	80.4							109.1
125	69.3	71.1	73.1	71.4	73.1	73.4	72.4	74.4	75.7	77.6	80.1							108.4
160	69.3	69.6	69.9	70.2	70.4	72.4	72.6	74.2	74.0	74.1	80.4							108.0
200	69.5	69.4	70.1	71.4	71.9	75.2	74.4	76.4	77.7	80.1	81.6							109.7
250	71.3	71.6	72.6	73.2	73.6	76.1	75.9	75.9	77.7	78.8	80.1							109.8
315	73.3	74.4	74.4	75.2	75.4	77.9	76.6	76.7	77.5	79.1	79.9							110.7
400	71.6	72.9	73.4	74.5	74.9	77.9	76.6	77.4	77.7	78.9	79.1							110.4
500	70.4	70.9	71.7	73.0	74.2	77.2	77.4	78.2	79.0	79.1	78.1							110.4
630	73.7	73.4	75.4	77.0	78.2	81.2	81.4	81.7	82.0	81.6	79.2							113.7
800	73.4	73.9	74.7	76.8	77.9	81.3	80.6	81.5	82.3	81.6	78.2							113.5
1000	73.9	74.7	75.7	77.9	79.5	83.5	83.4	84.9	85.8	84.9	79.2							116.2
1250	75.7	76.7	78.7	81.3	83.3	87.0	86.9	87.0	86.5	86.7	80.9							118.7
1600	88.5	91.3	90.2	91.4	94.5	98.3	99.4	98.5	94.1	96.2	88.7							129.7
2000	79.5	80.0	82.2	84.9	87.1	90.3	89.6	89.2	89.6	87.2	81.4							121.4
2500	77.0	78.3	80.2	83.7	85.6	90.1	90.1	89.2	89.8	86.9	80.9							121.2
3150	80.7	82.0	84.6	90.4	93.8	93.0	94.6	95.1	96.5	91.9	85.1							126.4
4000	74.9	75.9	79.0	82.9	85.5	88.7	89.2	89.7	90.9	86.8	81.0							121.0
5000	75.0	76.1	78.7	82.9	85.7	89.6	90.1	90.9	91.1	86.5	80.2							121.7
6300	72.3	74.4	76.3	80.6	83.2	87.8	88.0	89.6	91.0	85.7	78.9							120.4
8000	70.3	71.9	74.8	79.5	82.1	85.9	86.0	87.5	88.8	85.3	78.7							118.6
10000	69.4	71.6	74.4	78.9	81.7	86.8	86.4	88.4	89.5	84.9	78.2							119.3
12500	68.9	70.6	73.0	78.7	81.2	85.8	86.0	88.0	88.5	84.3	77.8							118.8
16000	66.4	68.5	71.6	75.8	79.1	83.1	84.3	86.0	87.3	82.4	76.4							117.3
20000	65.5	67.9	70.6	75.1	78.3	82.6	83.6	86.8	88.1	82.8	76.1							116.9
25000	64.0	65.7	69.0	73.4	76.3	81.0	82.8	84.1	85.7	80.6	73.9							115.5
31500	62.5	64.8	67.3	72.0	75.1	80.4	80.8	82.7	83.4	79.3	71.3							115.8
40000	61.2	62.3	64.8	68.2	71.2	76.7	77.7	79.6	80.4	76.1	68.9							114.8
50000	61.9	60.8	62.9	64.5	67.5	71.7	73.7	73.5	74.9	71.8	61.4							110.8
63000	63.0	60.3	62.4	61.5	62.6	66.4	67.0	66.3	67.8	65.7	59.8							107.7
80000	66.6	62.3	65.5	62.8	63.0	65.7	64.4	63.3	62.6	62.9	61.5							110.9
OVERALL MEASURED																		
OVERALL CALCULATED	91.1	93.2	93.5	96.4	98.5	102.2	102.9	103.0	102.7	100.5	94.9							134.4
PNDB	103.6	105.8	106.2	110.2	111.4	114.0	115.2	115.7	116.8	113.3	107.7							

OVERALL MEASURED

OVERALL CALCULATED

RADIAL 17. FT.
(5. M)
VEHICLE R-55
CONFIG 75-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/9
TAPE
BAR 30.1 MB
(1017. N/M2)
TAMB 38. DEG F
(276. DEG K)
TDET 27. DEG F
(270. DEG K)
HACT 0.69 GM/M3
(.00069 KG/M3)
NFA 6435. RPM
(674. RAD/SEC)
NFK 6569. RPM
(688. RAD/SEC)
NFD 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
562. FT/SEC

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 230. FT. (70.96 M)
VEHICLE R-55
CONFIG 79-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/9
TAPE
BAR 30.1 HG (101717. N/M2)
TAMB 36. DEG F (276. DEG K)
TDET 27. DEG F (270. DEG K)
HACT 0.69 GM/M3 (.00069 KG/M3)
NFA 6435. RPM (674. RAD/SEC)
NFK 8569. RPM (898. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 562. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )
FREQ.																	
50																	
63																	
80																	
100	48.4	52.7	51.6	47.7	47.8	54.4	53.2	51.1	50.8	51.3	50.3						
125	45.5	49.3	51.0	49.7	51.5	51.6	50.1	51.3	51.2	50.9	49.9						
160	45.2	46.7	47.7	48.3	48.7	50.5	50.3	50.9	51.3	51.3	49.0						
200	44.6	46.4	47.9	49.5	50.1	53.2	51.9	53.1	53.0	53.1	50.9						
250	47.2	48.6	50.2	51.2	51.7	54.1	53.3	52.5	52.9	51.7	49.2						
315	49.1	51.2	51.9	53.1	53.4	55.8	54.9	53.1	52.5	51.8	48.8						
400	47.3	49.6	50.3	52.3	52.8	55.7	53.9	53.8	52.6	51.4	47.8						
500	46.8	47.5	49.9	50.7	52.0	54.9	54.6	54.4	53.8	51.5	48.6						
630	49.1	50.0	52.7	54.6	56.0	58.8	58.5	57.8	56.6	53.9	47.3						
800	48.8	50.3	51.8	54.3	55.6	58.7	57.6	57.5	56.7	53.7	48.0						
1000	48.1	50.9	52.7	55.2	57.9	60.9	60.2	60.8	60.1	56.7	48.7						
1250	50.7	52.8	55.5	58.6	60.6	64.3	63.6	62.7	60.7	58.3	48.1						
1600	63.3	67.2	68.9	68.5	71.8	75.4	75.9	74.0	67.9	67.5	55.4						
2000	54.0	55.7	58.7	61.8	64.1	67.2	65.9	64.5	63.2	58.1	47.7						
2500	51.3	53.8	56.5	60.4	62.4	66.7	66.2	64.2	63.2	57.6	46.7						
3150	54.7	57.2	60.6	66.9	67.4	69.4	70.4	69.9	69.5	62.1	50.2						
4000	49.3	50.8	54.6	58.9	61.7	64.7	64.8	64.0	63.3	56.3	45.0						
5000	48.2	50.5	54.0	58.6	61.5	65.4	65.2	64.9	63.2	58.5	42.8						
6300	44.5	48.0	50.9	55.7	58.5	62.8	62.6	62.8	62.1	53.4	40.5						
8000	41.1	44.3	48.2	53.5	56.2	59.8	59.2	59.4	58.4	51.1	37.4						
10000	38.3	42.2	46.2	51.4	54.4	58.2	57.9	58.4	57.9	48.8	33.8						
12500	35.8	38.7	42.5	49.8	51.7	55.9	56.2	55.4	52.9	43.5	28.8						
16000	27.8	32.5	37.2	42.4	45.9	49.6	49.6	49.1	46.6	35.1	18.1						
20000	20.8	26.4	31.2	36.9	40.4	44.3	43.8	44.2	40.8	27.1	3.3						
25000	10.7	16.5	22.4	28.3	31.7	35.7	35.7	33.4	28.8	12.8							
31500		4.2	10.2	16.8	20.6	25.1	23.8	20.1	12.6								
40000					1.9	0.3	3.9										
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.7	68.8	69.9	72.9	75.2	78.5	78.7	77.4	74.8	70.9	61.8						
PNDB	78.2	81.4	82.5	86.7	88.8	91.2	91.3	90.4	89.4	83.7	73.1						

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 4 DAY 9 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80																		
100	67.3	73.1	74.1	72.2	71.9	73.4	70.9	72.2	76.1	80.1	83.4							109.5
125	73.3	79.1	79.8	77.4	76.9	76.9	74.1	76.7	77.7	79.8	82.6							112.1
160	71.0	71.9	72.1	72.4	72.4	74.7	74.9	76.7	79.8	81.1	83.4							110.7
200	70.3	76.4	71.1	72.4	73.6	77.2	76.1	77.9	79.7	82.8	84.8							111.8
250	73.3	74.1	75.1	75.2	76.1	78.1	78.4	78.4	80.2	81.8	83.1							112.3
315	75.3	76.4	76.4	76.7	76.8	79.7	78.4	78.7	80.0	82.1	82.4							112.8
400	73.0	74.1	74.7	75.7	76.4	78.9	78.1	78.7	79.2	81.1	82.1							112.1
500	72.1	72.9	73.7	74.5	75.9	79.8	78.9	79.4	80.5	81.1	81.1							112.1
630	75.7	75.4	76.7	78.5	79.4	83.2	82.9	82.7	83.5	82.9	81.4							115.2
800	75.4	75.9	76.4	78.3	79.4	83.0	82.8	83.2	83.8	83.4	80.9							115.3
1000	74.5	75.9	76.7	79.3	81.0	84.8	84.9	85.4	86.0	85.1	80.9							117.1
1250	76.2	76.5	79.5	82.1	83.8	87.8	87.4	87.7	88.0	87.4	82.2							119.5
1600	80.2	83.3	86.2	89.6	93.3	98.6	97.6	97.0	98.3	96.7	88.9							126.3
2000	84.2	83.8	85.2	88.4	91.1	96.1	95.4	94.7	95.6	93.5	86.7							124.9
2500	78.5	80.0	82.4	85.7	88.8	92.3	91.6	90.7	91.5	87.4	82.4							123.1
3150	79.2	80.8	83.9	86.7	89.8	93.3	93.1	93.6	95.5	90.2	85.0							125.2
4000	77.4	79.2	82.3	85.6	88.2	92.0	92.7	93.0	93.7	89.3	84.2							124.1
5000	76.5	78.4	81.5	85.1	87.7	92.4	91.6	92.4	92.8	88.5	82.6							123.0
6300	74.3	76.1	79.1	83.1	85.5	89.5	90.0	91.4	92.0	87.2	80.0							122.1
8000	72.3	75.2	77.8	82.0	84.3	88.9	89.2	91.8	91.3	86.9	80.4							121.7
10000	72.2	74.3	76.9	81.9	83.7	88.6	88.6	90.9	91.8	86.7	80.7							121.5
12500	71.4	73.3	76.3	81.2	84.2	87.8	88.3	91.3	91.5	86.1	80.8							121.5
16000	69.1	71.2	74.3	78.6	81.6	85.9	86.8	88.8	89.3	84.8	78.4							119.8
20000	68.2	70.4	73.6	77.6	81.3	85.4	86.6	89.3	90.1	84.8	78.3							120.4
25000	66.5	68.4	72.3	76.9	79.1	84.8	85.3	87.4	88.7	83.1	76.7							119.5
31500	65.3	67.5	70.8	75.7	78.1	83.4	83.8	85.9	86.6	81.8	73.6							118.9
40000	62.7	64.6	67.3	71.9	74.8	80.0	81.2	81.8	82.6	78.1	68.1							118.8
50000	62.4	61.6	64.9	67.5	69.2	73.4	76.5	76.5	77.4	74.3	63.4							113.8
63000	62.8	60.6	62.9	62.2	63.8	68.1	69.5	68.8	69.6	67.4	59.8							109.5
80000	66.6	64.1	65.5	62.8	63.0	65.7	64.4	63.6	63.1	62.9	61.5							111.1
OVERALL MEASURED																		
OVERALL CALCULATED	91.3	91.3	93.6	96.7	99.4	103.9	103.5	104.0	104.9	101.8	97.8							136.7
PNDB	103.8	104.8	106.6	109.3	112.8	115.9	115.5	116.0	117.3	114.2	109.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 4 DAY 9 HR. 15.0

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.12)	76. (1.33)	87. (1.52)	98. (1.71)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
SIDELINE 700. FT. 80																	
(69.96 M) 100	43.6	58.4	52.1	50.5	58.3	51.7	48.7	49.1	51.6	53.5	53.3						
VEHICLE R-55 125	49.5	56.3	57.5	55.7	55.2	55.1	51.8	53.5	53.2	53.2	52.4						
CONFIG 79-6A 160	47.2	49.8	49.9	50.6	58.7	52.6	52.5	53.4	54.3	54.3	52.9						
LRC SCHEDULE 200	46.3	47.4	48.8	50.5	51.8	55.2	53.7	54.8	55.0	55.8	53.9						
DATE 8/3/75 250	49.2	51.1	52.7	53.2	54.2	56.1	56.8	55.8	55.4	54.7	52.2						
RUN 74/10 315	51.1	53.2	53.9	54.6	54.7	57.5	55.7	55.1	55.0	54.8	51.3						
TAPE 400	49.6	50.9	52.1	53.5	54.3	56.7	55.4	55.0	54.1	53.7	50.8						
BAR 30.1 MG 500	47.7	49.5	51.8	52.2	53.8	56.7	56.1	55.7	55.3	53.5	49.6						
(8171. N/M2) 630	51.1	52.0	53.9	56.1	57.2	60.8	60.0	58.8	58.1	55.1	49.6						
TAMB 38. DEG F 800	50.8	52.3	53.8	55.8	57.1	60.5	59.6	59.2	58.2	55.4	48.8						
(276. DEG K) 1000	49.6	52.2	53.7	56.7	58.5	62.1	61.7	61.3	60.3	57.8	48.4						
TWCI 27. DEG F 1250	51.2	52.6	54.3	59.3	61.1	65.8	64.1	63.4	62.2	58.9	49.4						
(270. DEG K) 1600	61.8	59.2	62.9	66.7	70.5	75.8	74.1	72.8	72.2	68.8	55.7						
MACT 0.00 GM/M3 2000	58.8	58.7	61.7	65.3	68.1	72.9	71.7	70.8	69.2	64.4	52.9						
(0.0000 KG/M3) 2560	52.8	55.5	58.7	62.4	65.7	69.8	67.7	65.7	64.9	58.1	48.2						
NFA 6974. RPM 3150	53.2	55.9	59.9	63.1	66.4	69.7	68.8	68.4	68.5	60.3	50.9						
(730. RAD/SEC) 4000	50.8	53.9	57.8	61.6	64.4	67.9	66.1	67.2	66.1	58.8	48.3						
NFK 7129. RPM 5000	49.7	52.8	56.7	60.9	63.8	68.1	66.7	66.4	64.9	57.5	45.8						
(745. RAD/SEC) 6300	48.5	49.7	53.6	58.2	60.7	64.6	64.4	64.5	63.1	54.9	42.5						
NF2 8023. RPM 8000	43.1	47.5	51.2	56.0	58.5	62.8	62.4	63.6	60.9	52.3	39.2						
(840. RAD/SEC) 10000	41.1	45.8	48.7	54.4	56.4	60.9	60.2	60.9	59.2	48.8	35.8						
NO. OF BLADES 18 12500	37.5	41.5	45.7	51.5	54.7	57.9	57.5	58.7	58.0	48.3	29.1						
FAN TIP SPEED 16000	30.6	35.2	40.0	45.2	48.4	52.4	52.1	51.9	48.8	37.4	18.1						
690. FT/SEC 20000	23.6	28.9	34.2	40.4	43.4	47.9	46.8	46.7	42.8	28.8	8.6						
25000	15.2	19.2	25.7	31.8	34.4	38.7	38.2	36.7	31.8	15.3							
31500		8.9	13.7	20.5	23.6	28.1	26.9	23.4	15.9								
40000				1.8	4.7	9.6	7.4	1.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	65.6	66.9	69.7	73.8	78.6	88.1	78.8	78.8	77.2	72.2	64.1						
PNDB	78.8	79.2	82.8	85.8	89.5	92.8	91.4	90.7	90.2	84.8	74.8						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 4 DAY 9 HR. 15.0

MODEL SOUND PRESSURE LEVELS (90. DEG, F= 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	61. (1.06)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	0. ( )	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
S. NO	100	68.8	71.4	72.4	72.7	72.9	75.7	74.1	74.4	78.2	83.3	87.1							112.2
VEHICLE 8-25	125	75.3	77.6	77.4	75.9	76.4	78.4	78.4	79.7	80.7	83.3	86.4							113.8
CONFIG 73-68	160	73.8	74.9	74.6	74.9	74.9	77.7	78.1	79.2	82.8	84.3	86.4							113.7
LOC SCHENECTADY	200	72.5	72.9	74.1	74.4	78.1	80.4	78.9	80.7	83.8	85.8	87.8							114.9
DATE 2/3/75	250	77.8	77.9	78.4	78.9	82.4	82.9	82.4	83.6	85.8	86.6	87.3							118.9
RUN 74/11	315	78.1	78.9	79.1	79.2	79.6	82.4	81.1	81.7	83.8	84.9	89.6							115.6
TAPE	400	76.4	76.9	77.4	79.2	78.4	81.4	80.6	81.2	82.5	84.1	85.1							114.8
BAR 30.1 HG	500	76.4	76.9	75.9	77.8	79.4	81.7	81.6	82.4	83.5	84.1	83.9							114.9
(101717. N/M2)	630	77.4	77.7	78.9	80.7	81.9	83.2	83.4	85.8	85.8	85.6	84.2							117.6
TAMB 38. DEG F	800	77.9	78.2	79.2	81.8	81.9	85.3	84.9	85.7	86.8	85.4	83.4							117.7
(276. DEG K)	1000	77.8	77.9	78.7	80.5	82.2	86.8	86.6	87.2	87.8	86.1	83.2							118.7
TSET 27. DEG F	1250	77.2	77.8	81.2	83.8	85.3	89.3	89.1	88.7	89.3	87.2	83.2							120.6
(270. DEG K)	1600	84.5	85.3	87.2	89.4	92.5	94.6	92.4	92.2	91.8	88.5	83.7							125.1
MACT 0.00 GM/M3	2000	97.5	98.5	101.8	102.7	105.8	106.8	101.4	98.7	98.1	93.8	90.4							130.3
(0.00000 KG/M3)	2500	93.2	94.3	96.4	99.4	98.3	98.1	94.1	93.2	94.5	88.9	84.6							126.2
MFA 7746. RPM	3150	90.7	92.8	95.6	98.9	91.6	95.8	93.8	93.6	94.5	88.9	84.6							125.8
(811. RAD/SEC)	4000	84.9	84.7	89.8	93.9	95.5	97.2	96.9	99.7	97.2	92.8	88.7							129.6
NFR 7988. RPM	5000	78.3	80.4	83.5	87.3	89.9	93.9	93.9	94.7	94.3	88.8	83.4							126.4
(836. RAD/SEC)	6300	78.3	80.4	83.1	87.4	89.5	94.3	95.6	95.9	95.8	89.7	84.2							126.4
NFB 8023. RPM	8000	75.5	78.4	81.8	85.8	87.6	91.6	92.7	94.8	94.8	88.5	83.4							124.4
(924. RAD/SEC)	10000	75.7	77.5	81.4	86.2	89.8	91.8	93.6	94.9	94.8	88.9	83.5							126.3
NO. OF BLADES 15	12500	75.4	77.1	80.8	85.8	87.7	92.8	93.3	94.8	94.3	88.3	83.5							126.8
FAN TIP SPEED	16000	72.9	75.2	78.3	82.3	85.6	89.6	90.5	92.5	92.3	86.4	81.2							123.2
676. FT/SEC	20000	72.8	74.6	78.9	83.1	85.3	89.9	90.9	93.3	93.3	87.6	81.6							124.3
	25000	70.5	73.4	77.3	81.4	84.1	89.8	90.8	92.6	92.5	87.1	80.4							124.1
	31500	69.8	72.8	75.3	80.2	82.6	87.7	88.5	89.9	90.4	85.8	77.1							123.8
	40000	66.2	68.6	72.1	76.2	79.8	84.8	84.9	85.8	86.4	81.6	70.9							120.5
	50000	63.6	64.1	67.4	71.8	74.2	79.4	81.8	80.7	80.9	77.3	66.9							117.6
	63000	63.3	61.1	63.4	64.2	67.1	72.4	73.5	73.8	73.6	70.7	61.1							113.1
	80000	64.6	63.8	65.5	62.8	63.2	66.2	66.4	66.6	66.6	64.4	61.5							112.2
OVERALL MEASURED																			
OVERALL CALCULATED		94.7	97.7	102.2	104.3	107.2	109.8	108.8	108.8	108.6	102.4	99.4							120.9
	PNLD	112.8	113.1	115.5	117.7	120.4	122.3	119.2	120.8	118.8	115.2	111.8							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 NO. 15.0

MODEL SOUND PRESSURE LEVELS (SP. REF. P= 20 MICRONT BEL, NUM. RAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.	50																	
	63																	
SIDELINE 203. FT.	80																	
(60.96 M)	100	44.4	48.7	50.3	51.8	51.3	53.9	51.9	51.3	53.6	56.8	57.1						
VEHICLE B-66	125	51.5	54.8	55.2	54.2	51.7	54.6	56.1	56.5	56.2	56.7	56.1						
CRAFIG 73-68	160	49.9	52.8	52.4	53.1	53.2	55.8	54.8	55.9	57.3	57.5	58.8						
LOC SCHENECTADY	200	48.6	49.9	51.8	52.5	54.3	54.4	56.4	57.3	58.2	58.9	57.2						
DATE 3/3/75	250	53.8	54.8	57.8	57.9	56.5	60.9	59.8	60.2	60.1	59.5	56.5						
RUN 74/11	315	53.9	55.7	56.7	57.1	57.7	66.3	56.5	58.1	58.8	57.9	54.5						
TAPE	400	52.1	53.6	54.6	56.9	56.3	59.2	57.9	57.5	57.4	56.7	53.8						
BAR 28.1 MB	500	53.8	51.5	53.2	54.7	56.3	59.4	56.8	56.7	56.3	56.5	52.3						
(1017. M/S2)	630	52.9	54.2	56.2	56.4	56.7	62.8	62.5	61.1	60.4	57.9	52.3						
TAMB 36. DEG F	800	53.3	54.6	56.3	56.5	59.6	63.8	61.8	61.7	60.5	57.4	51.3						
(276. DEG K)	1000	52.1	54.2	55.7	57.8	58.7	64.1	63.5	63.1	62.1	58.8	58.7						
TWET 27. DEG F	1250	53.2	55.1	56.3	61.1	62.6	66.5	65.8	64.4	63.4	58.8	56.4						
(270. DEG K)	1600	59.3	61.2	63.9	66.5	69.8	71.8	68.9	67.7	65.7	59.7	58.4						
HACT 0.69 GM/M3	2000	72.8	74.2	77.4	79.6	82.6	83.7	77.7	74.8	71.7	65.9	56.7						
(.86E09 KG/M3)	2500	57.6	59.8	62.7	66.2	69.2	72.7	78.2	68.2	67.9	59.6	56.4						
RPA 7746. RPM	3150	54.7	57.9	61.6	65.4	68.2	71.4	69.6	68.4	67.5	58.1	49.7						
(811. RAD/SEC)	4000	58.3	59.4	64.8	68.9	71.7	73.2	72.3	74.8	69.8	62.3	52.8						
RPK 7009. RPM	5000	51.4	54.8	58.7	63.1	65.9	69.6	69.8	68.8	66.4	57.8	48.8						
(734. RAD/SEC)	6300	58.5	54.8	57.8	62.4	64.7	69.3	69.4	68.8	66.9	59.4	45.7						
RPB 6423. RPM	8000	48.4	50.4	54.4	59.8	61.7	65.3	63.9	65.9	63.8	54.3	42.2						
(724. RAD/SEC)	10000	44.8	45.5	53.4	58.8	61.6	64.2	65.2	64.9	62.2	52.8	38.3						
NO. OF BLADES 19	12500	41.5	45.2	50.2	55.2	58.2	62.2	62.5	61.4	58.7	47.5	32.8						
FAN TIP SPEED	16000	34.3	39.2	44.8	48.9	52.4	56.1	55.9	56.6	51.6	38.1	28.8						
670. FT/SEC	20000	27.3	33.2	38.5	44.9	47.4	51.5	51.1	50.7	46.8	31.8	0.0						
	25000	17.2	24.2	30.7	36.3	38.4	43.7	42.8	41.9	35.8	19.3							
	31500	2.9	11.4	18.2	25.8	28.1	32.3	38.7	27.4	19.6								
	40000				6.8	9.7	13.8	11.2	8.7									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		73.1	75.3	78.4	80.9	84.8	85.4	81.6	80.2	78.1	73.3	66.6						
		88.4	88.6	91.8	94.4	97.2	98.8	98.2	94.4	91.6	88.4	77.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 4 DAY 9 HR. 15.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

RADIAL 17. FT. (5. M)
VEHICLE R-85
CONFIG 75-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/12
TAPE
BAR 30.1 HG (101717. N/M2)
TAMB 38. DEG F (276. DEG K)
TAMB 27. DEG F (270. DEG K)
HACT 0.69 GM/M3 (.0069 KG/M3)
NFA 7746. RPM (811. RAD/SEC)
NFK 7906. RPM (828. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 676. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.75)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																			
63																			
80																			
100	68.3	71.6	72.9	72.9	73.4	75.9	73.9	74.7	78.5	83.1	87.4								112.3
125	75.3	77.4	77.4	76.2	76.1	78.2	78.1	79.9	80.7	83.1	86.4								113.7
160	73.5	74.4	74.4	75.4	74.9	77.2	78.6	79.7	81.7	84.6	87.1								113.9
200	73.0	72.9	73.6	74.4	75.9	80.2	79.4	80.7	83.0	85.3	87.1								114.6
250	77.0	77.4	79.1	79.4	80.1	82.4	82.4	83.1	84.5	86.3	87.6								118.6
315	78.1	78.4	78.9	79.2	79.4	82.2	81.1	81.4	83.0	84.5	86.1								115.6
400	76.4	77.1	77.2	78.2	78.7	81.4	81.1	81.4	83.0	84.4	85.6								115.1
500	74.4	74.7	75.7	77.0	78.4	82.0	81.9	82.4	83.8	84.6	84.1								115.1
630	77.4	77.4	79.4	80.7	82.2	85.0	84.6	85.2	85.5	85.6	84.2								117.5
800	77.9	78.4	79.4	80.5	81.9	85.5	85.4	86.2	86.5	85.8	83.9								116.0
1000	76.7	77.7	78.7	81.3	82.5	86.5	86.9	87.4	87.8	86.4	83.2								116.9
1250	78.2	79.0	81.7	84.3	85.9	89.8	89.4	88.7	89.8	87.4	83.4								121.1
1600	84.2	85.5	87.5	89.4	92.3	94.8	92.6	92.0	92.3	88.7	83.9								129.2
2000	97.7	98.8	101.0	102.4	106.1	107.1	101.4	98.7	97.8	95.2	90.2								130.4
2500	83.2	84.8	86.4	89.4	92.1	96.1	94.1	93.2	95.0	88.7	84.9								126.2
3150	81.7	83.0	85.9	88.9	91.6	95.5	94.3	93.9	95.3	89.7	84.8								126.2
4000	85.4	85.4	89.8	94.1	95.7	97.2	97.4	100.5	97.4	92.8	88.7								129.9
5030	79.0	80.9	84.0	87.3	89.7	93.6	94.1	94.9	94.8	89.3	83.4								125.8
6300	78.5	80.4	83.6	87.6	89.7	94.5	94.8	96.1	96.0	89.7	84.7								126.5
8000	75.3	78.4	81.0	85.2	87.3	92.4	92.5	94.0	94.0	88.5	83.2								124.5
10000	76.4	78.1	81.9	85.7	89.2	92.6	93.1	94.4	95.3	88.9	84.0								125.3
12500	75.7	77.1	81.0	85.2	87.9	91.8	93.3	94.0	94.5	86.6	83.0								125.0
16000	72.6	75.7	78.8	82.3	85.3	89.9	91.0	92.8	92.8	86.9	81.2								123.5
20000	72.5	74.9	78.9	82.9	85.3	89.6	91.4	93.8	93.8	87.8	81.3								124.6
25000	78.7	73.2	77.0	81.1	83.8	88.7	90.3	92.9	93.2	87.6	80.4								124.4
31500	69.5	72.0	75.8	79.7	82.6	87.4	88.3	90.4	90.1	85.3	77.3								123.8
40000	65.9	68.8	72.1	75.9	79.0	83.5	84.7	86.8	86.9	81.9	71.1								120.6
50000	63.9	64.1	68.4	70.8	74.2	79.4	80.7	80.7	81.9	77.8	65.9								117.8
63000	63.5	60.6	63.9	64.2	67.1	72.1	74.0	73.5	74.4	70.7	61.3								113.5
80000	66.6	63.1	65.5	62.8	63.0	66.2	66.4	66.3	67.4	64.9	61.5								112.2
OVERALL MEASURED																			
OVERALL CALCULATED	98.9	98.9	102.2	104.2	107.4	109.2	106.6	107.0	106.8	102.5	99.5								140.0
PNDB	112.3	113.3	115.6	117.6	120.5	122.5	119.3	120.4	119.2	115.3	111.9								

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.6	48.9	50.8	51.2	51.8	54.2	51.7	51.6	54.1	56.5	57.3						
125	51.5	54.6	55.2	54.4	54.5	56.3	55.8	56.8	56.2	56.4	56.1						
160	49.7	51.5	52.2	53.6	53.2	55.3	56.3	56.4	57.1	57.8	56.6						
200	49.1	49.9	51.3	52.5	54.1	58.2	56.9	57.3	58.2	58.4	56.4						
250	53.0	54.3	56.7	57.4	58.2	60.4	59.8	59.7	59.6	59.2	56.7						
315	53.9	55.2	56.4	57.1	57.4	60.0	58.5	57.9	58.0	57.6	55.0						
400	52.1	53.9	54.6	56.0	56.8	59.2	58.4	57.6	57.9	58.9	54.3						
500	50.3	51.3	53.0	54.7	56.3	59.7	59.1	58.7	58.5	57.0	52.6						
630	52.9	54.0	56.7	58.4	60.9	62.6	61.7	61.3	60.1	57.9	52.3						
800	53.3	54.8	56.5	57.3	59.6	63.0	62.3	62.2	61.0	57.7	51.8						
1000	51.9	53.9	55.7	56.7	60.0	63.9	63.7	63.3	62.1	58.2	50.7						
1250	53.2	55.1	58.5	61.6	63.1	67.0	66.1	64.4	63.9	59.9	50.6						
1600	59.0	61.4	64.1	66.5	69.5	71.9	69.1	67.5	66.2	60.0	50.7						
2000	72.3	74.5	77.4	79.3	83.1	83.9	77.7	74.0	71.4	66.1	56.4						
2500	57.6	60.3	62.7	66.2	68.9	72.7	70.2	68.2	68.4	59.3	50.7						
3150	55.7	58.2	61.9	65.4	68.2	71.9	70.1	68.6	68.3	59.8	49.9						
4000	58.8	60.1	65.3	70.1	71.9	73.2	72.8	74.7	69.8	62.3	52.8						
5000	52.2	55.3	59.2	63.1	65.8	69.4	69.2	68.9	66.9	58.3	48.8						
6300	50.8	54.8	58.1	62.7	65.0	68.6	69.2	69.3	67.1	57.4	48.2						
8000	46.1	50.8	54.4	59.2	61.5	66.3	65.7	65.9	63.6	54.3	41.9						
10000	45.3	48.7	53.7	58.1	61.9	64.9	64.7	64.4	62.7	52.0	38.8						
12500	41.8	45.2	50.5	55.5	58.4	61.9	62.5	61.4	58.9	47.8	32.1						
16000	34.1	39.7	44.5	48.9	52.2	56.4	56.4	55.9	52.1	39.8	28.8						
20000	27.8	33.4	39.5	44.6	47.4	51.3	51.8	51.2	46.5	32.1	8.6						
25000	17.4	24.0	30.4	36.8	39.2	43.5	43.2	42.2	36.4	19.8							
31500	3.4	11.4	18.7	24.5	28.1	32.1	30.5	27.9	19.4								
40000				5.8	9.7	13.1	10.9	6.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	73.4	75.5	78.5	80.8	84.2	85.6	81.7	80.8	78.3	72.4	66.7						
PNDB	86.6	89.8	91.9	94.3	97.4	99.2	95.3	94.9	91.9	85.6	77.1						

SIDELINE 200. FT. (60.96 M)
VEHICLE B-55
CONFIG 75-6B
LOC SCHENECTADY
DATE 2/3/75
RUN 74/12
TAPE
P AMB 30.1 IN HG /17. N/M2)
T AMB 38. DEG F (276. DEG K)
T-ET 27. DEG F (270. DEG K)
HACT 0.69 GM/M3 (.00069 KG/M3)
NFA 7746. RPM (811. RAD/SEC)
NFK 7908. RPM (828. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 676. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 4 DAY 9 HR. 18.1

MODEL SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
50																			
63																			
80																			
100	72.0	74.9	77.7	79.2	79.0	79.9	73.8	67.0	72.5	75.0	76.7								110.8
125	67.2	67.2	71.4	67.7	70.5	69.6	67.0	71.2	71.5	71.3	74.4								104.3
160	64.2	64.9	65.4	66.0	69.3	68.4	68.3	69.5	71.2	72.8	74.9								103.2
200	63.5	63.9	64.9	66.0	67.0	70.4	69.5	71.0	72.7	74.0	75.9								104.3
250	66.2	67.2	68.6	68.7	69.3	71.9	71.0	71.7	72.9	74.0	74.6								105.1
315	68.7	70.4	70.4	70.7	70.5	73.7	72.0	72.5	73.5	74.3	74.6								106.2
400	68.0	69.7	69.4	70.7	71.3	73.9	73.0	73.5	74.0	74.0	73.9								106.4
500	66.3	67.2	67.7	69.3	70.3	73.9	73.3	74.0	75.2	75.0	73.7								106.5
630	69.5	70.0	71.9	73.0	74.1	77.5	77.3	77.8	78.2	77.6	75.4								109.8
800	73.1	73.2	73.7	73.0	74.4	78.2	78.1	78.8	79.5	78.6	76.0								110.6
1000	69.6	72.2	73.0	74.8	76.9	81.0	80.6	81.8	82.7	81.6	75.7								111.2
1250	82.7	83.5	87.2	90.1	91.4	94.0	91.6	91.3	90.3	89.6	84.2								126.4
1600	77.7	78.3	81.2	83.9	85.2	88.3	86.8	87.1	86.3	85.9	79.7								119.3
2000	73.2	74.4	76.0	78.2	80.5	84.3	84.3	83.8	84.3	83.4	78.3								115.9
2500	75.5	76.9	78.3	81.9	84.8	89.6	90.3	91.1	90.6	88.2	82.5								121.8
3150	72.5	74.4	76.5	79.3	82.0	86.3	86.0	87.0	86.1	86.4	80.2								118.4
4000	70.6	74.1	76.1	79.3	81.2	85.5	85.7	87.9	89.0	86.1	78.1								118.5
5000	69.1	70.8	73.1	76.7	79.2	83.2	83.4	84.8	86.4	83.5	76.0								116.0
6300	67.3	69.5	71.9	75.0	78.3	82.9	82.8	85.1	86.3	82.9	75.8								115.8
8000	64.6	67.3	69.6	73.2	75.8	80.4	80.7	83.2	83.6	81.8	75.1								113.7
10000	64.7	67.0	69.5	73.3	76.5	80.9	81.4	83.3	85.1	81.9	75.4								114.5
12500	63.8	65.8	68.4	72.9	76.0	80.9	81.0	83.7	83.9	81.4	74.4								114.3
16000	62.2	63.6	65.5	70.0	73.9	77.7	79.3	81.2	82.9	79.4	73.4								112.7
20000	61.6	62.3	64.5	68.6	72.1	77.3	78.2	81.0	82.7	79.1	71.8								112.6
25000	58.8	60.1	62.4	66.8	70.2	75.6	76.3	78.1	79.6	76.0	68.8								110.6
31500	57.4	58.8	61.0	65.9	69.0	74.8	75.1	76.9	78.5	73.9	66.5								110.3
40000	55.5	56.1	58.5	62.6	65.3	71.2	72.2	72.8	74.5	71.0	60.3								108.1
50000	55.5	55.1	57.4	58.3	60.6	66.3	68.1	67.5	69.6	66.8	56.4								103.2
63000	55.5	53.8	55.7	55.0	55.7	60.3	60.8	60.1	62.0	60.3	53.0								101.6
80000	57.6	57.4	56.0	54.1	54.1	56.9	56.5	55.4	56.1	54.3	52.5								102.6
OVERALL MEASURED																			
OVERALL CALCULATED	86.4	87.6	90.4	93.1	94.8	98.2	97.3	98.2	98.5	96.6	91.3								120.8
PNDB	97.5	99.6	101.2	103.9	106.0	110.2	110.2	111.1	111.3	109.4	104.2								

RADIAL 17. FT.
(5. M)
VEHICLE R-55
CONFIG 75-6R
LOC SCHENECTADY
DATE 2/3/75
RUN 74/13
TAPE
BAR 30.1 HG
(101717. N/M2)
TAMB 37. DEG F
(276. DEG K)
TWET 27. DEG F
(270. DEG K)
HACT 0.99 GM/M3
(.00099 KG/M3)
NFA 5424. RPM
(568. RAD/SEC)
NFK 5543. RPM
(580. RAD/SEC)
NFB 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
474. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 4 DAY 9 HR. 15.1

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 75-68
LOC SCHENECTADY
DATE 2/3/75
RUN 74/13
TAPE
BAR 30.1 HG (101717. N/M2)
TAMB 37. DEG F (276. DEG K)
TWET 27. DEG F (270. DEG K)
HACT 0.99 GM/M3 (.00099 KG/M3)
NFA 5424. RPM (568. RAD/SEC)
NFK 5543. RPM (580. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 474. FT/SEC

	ANGLES FROM INLET IN DEGREES (AND RADIANS)											
FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)
50												
63												
80												
100	48.3	52.2	55.6	57.5	57.5	58.2	51.6	43.9	48.0	48.5	46.6	
125	43.5	44.4	49.3	45.9	48.9	47.8	44.7	48.1	46.9	44.6	44.2	
160	40.4	42.0	43.2	44.1	44.6	46.5	45.9	46.3	46.6	45.9	44.4	
200	39.5	40.9	42.6	44.0	45.2	48.4	47.1	47.7	48.0	47.1	45.2	
250	42.2	44.1	46.2	46.7	47.4	49.8	48.5	48.3	48.1	46.9	43.8	
315	44.6	47.3	47.9	48.6	48.5	51.5	49.4	49.0	48.5	47.0	43.6	
400	43.7	46.4	46.8	48.6	49.3	51.7	50.3	49.9	48.9	46.8	42.6	
500	41.9	43.8	45.0	47.0	48.2	51.6	50.5	50.3	50.0	47.5	42.1	
630	45.1	46.5	49.2	50.7	51.9	55.1	54.4	53.9	52.9	49.8	43.6	
800	45.4	47.6	48.8	50.6	52.0	55.7	55.0	54.8	54.0	50.6	42.6	
1000	44.8	48.5	49.9	52.2	54.4	58.4	57.4	57.7	57.1	53.4	43.2	
1250	57.7	59.6	64.1	67.4	66.8	71.3	68.3	67.0	64.4	61.2	51.4	
1600	52.5	54.2	57.9	61.0	62.5	65.4	63.3	62.6	60.2	57.2	46.5	
2000	47.8	50.1	52.5	55.2	57.6	61.2	60.6	59.1	57.9	54.4	44.5	
2500	49.8	52.4	54.5	58.5	61.7	66.3	66.4	66.1	64.0	58.8	48.3	
3150	46.4	49.6	52.5	55.7	58.6	62.7	61.9	61.8	61.0	56.6	45.3	
4000	44.1	48.8	51.7	55.3	57.4	61.5	61.1	62.2	61.4	55.5	42.1	
5000	42.2	45.2	48.3	52.5	55.1	58.9	58.5	58.8	58.5	52.5	39.4	
6300	39.6	43.1	46.5	50.1	53.5	57.9	57.2	58.2	57.4	50.7	37.4	
8000	35.4	39.7	43.0	47.1	50.0	54.4	53.9	55.0	53.2	47.6	33.8	
10000	33.7	37.7	41.3	45.8	49.2	53.3	53.0	53.4	52.6	45.0	30.2	
12500	29.8	33.9	37.9	43.2	46.4	51.0	50.2	51.1	48.3	40.6	23.5	
16000	23.7	27.6	31.1	36.6	40.7	44.2	44.6	44.3	42.2	32.2	13.0	
20000	15.9	20.9	25.2	30.3	34.2	38.9	38.4	38.4	35.4	23.4		
25000	5.5	10.9	15.9	21.7	25.5	30.4	29.2	27.4	22.7	8.1		
31500			3.8	10.8	14.4	19.5	17.3	14.4	7.7			
40000						0.8						
50000												
63000												
80000												
OVERALL CALCULATED	61.2	63.5	67.0	70.1	71.8	74.8	73.2	72.7	71.1	66.9	58.0	
PNDB	71.5	74.2	77.4	80.6	82.7	86.7	86.2	86.0	84.4	79.7	69.0	

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG' DATE = MONTH 12 DAY 8 AR: 8:6

MODEL SOUND PRESSURE LEVELS (50: DEG. F: 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
	PRES.																		
	30																		
	85																		
RADIAL 19, FT.	80	69.6	70.2	74.0	77.2	77.2	74.0	75.5	72.2	75.9	74.6	75.2							109.7
S. MI	100	60.9	64.2	69.0	69.3	69.0	74.3	66.8	64.3	69.3	71.9	74.5							103.3
VEHICLE ROSS	125	58.0	60.8	71.3	67.3	69.3	74.1	66.8	71.1	70.8	70.9	74.0							104.1
CONFIG Z596C	160	63.7	64.2	64.8	65.8	69.9	69.8	67.3	68.5	70.6	71.9	73.5							102.0
LCB SCHENECTADY	200	62.7	63.3	64.3	65.1	69.9	74.9	69.3	70.6	71.8	72.9	75.5							103.0
DATE 82-03-25	250	65.7	67.8	68.1	68.1	68.8	73.6	70.3	71.6	72.6	73.2	74.5							104.2
RUN 76017	315	67.7	69.1	69.3	68.6	69.6	73.6	70.6	71.1	72.4	72.9	73.8							105.0
TAPE R08082	400	66.9	68.8	68.8	69.8	70.8	73.7	72.6	72.3	73.6	73.1	73.4							107.6
BAR 30.1 HG	500	65.1	66.6	66.9	68.9	70.4	73.9	72.9	73.4	73.9	74.3	73.6							108.7
(81578. N/M2)	630	67.5	68.8	70.1	71.3	72.8	74.1	75.8	76.4	76.6	76.8	74.8							109.4
TAMB 48. DEG F	800	68.3	68.8	69.1	70.1	71.6	73.9	74.6	75.9	76.4	76.2	73.8							107.4
(278. DEG K)	1000	66.5	67.6	69.6	71.6	73.1	73.8	77.6	78.4	79.4	79.8	73.7							107.5
THET 38. DEG F	1250	68.1	69.3	72.9	76.4	76.4	77.1	80.6	82.9	84.6	83.5	76.3							113.7
(276. DEG K)	1600	64.9	66.0	68.3	71.1	71.5	73.5	75.9	77.3	76.8	77.2	72.6							107.9
WAST 3.43 GM/M3	2000	64.3	64.9	66.6	68.2	70.4	69.6	73.5	75.7	77.6	76.6	71.5							106.7
(.00343 KG/M3)	2500	78.8	71.6	73.8	75.8	78.8	77.3	85.5	88.4	87.9	86.1	78.4							117.4
RPS 9490. RPM	3150	69.2	70.9	72.1	75.0	77.9	77.5	82.0	85.8	86.8	85.9	78.7							116.8
(.271. RAD/SEC)	4000	69.4	72.2	73.1	76.3	79.9	78.8	83.3	86.5	88.3	86.9	78.8							116.6
RPK 9553. RPM	5000	65.9	67.8	70.1	73.0	75.9	76.0	80.8	83.0	83.6	81.8	74.8							112.9
(.281. RAD/SEC)	6300	64.9	66.5	68.2	71.0	73.4	74.8	78.3	82.7	83.2	79.8	72.6							111.1
RPB 8823. RPM	8000	63.6	65.3	66.4	70.7	73.3	74.4	78.6	81.9	82.4	81.3	74.4							111.1
(.924. RAD/SEC)	10080	63.8	65.6	66.2	70.7	73.1	74.8	78.7	81.6	84.1	82.2	72.8							111.3
NO. OF BLADES IS 2.	12500	63.4	66.8	68.3	70.1	73.1	74.1	78.9	81.8	84.4	82.8	72.4							111.6
FAN TIP SPEED	16000	61.9	64.2	66.2	68.9	72.6	74.6	78.6	81.5	83.8	79.8	72.4							110.2
4767 FT/SEC	20000	61.5	64.3	64.3	68.5	72.0	74.3	78.3	81.5	83.6	80.1	71.8							110.0
	25000	60.7	63.2	65.3	67.2	71.3	73.5	78.3	80.7	82.0	78.2	71.0							109.5
	31500	59.5	62.5	63.9	67.3	70.4	73.4	77.2	80.2	81.4	77.6	68.7							108.6
	40000	58.5	61.1	61.1	64.7	67.7	69.1	75.1	77.2	78.4	75.8	64.7							105.2
	50000	55.6	58.1	55.9	58.1	61.2	63.8	68.7	69.5	70.9	68.8	58.2							98.8
	63000	50.7	54.9	50.3	50.9	52.1	54.4	57.4	58.7	60.2	57.8	50.7							88.2
	80000	44.4	44.8	44.3	43.4	43.8	44.1	44.4	43.9	43.6	43.8	43.3							83.4
OVERALL MEASURED																			
OVERALL CALCULATED		68.8	69.2	70.4	72.1	73.8	75.0	77.9	79.4	80.4	78.8	73.8							116.1
	PWRD	72.9	73.1	74.4	76.0	77.8	79.0	81.9	83.4	84.4	82.8	77.8							

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PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG, DATE & MONTH 42 DAY 0 HR, 0.0

MODEL SOUND PRESSURE LEVELS (59, DEG, F, 70 PERCENT REL, HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	0.
50																			
63																			
SIDELINE 2000 FT;	80	86.0	87.5	91.9	95.6	95.7	91.3	93.3	89.2	91.2	88.4	85.3							
(609.76 M)	100	87.2	91.5	96.9	97.6	97.4	91.5	94.5	91.2	94.9	93.3	94.4							
VEHICLE RR59	125	94.2	96.0	99.1	95.9	97.7	91.3	94.5	97.9	96.3	94.2	93.8							
CONFIG 29=6C	160	89.8	91.8	92.5	93.2	94.0	91.9	94.9	98.3	95.4	95.0	93.0							
LOC SCHENECTADY	200	88.8	90.3	92.0	93.2	94.1	91.9	96.9	96.3	96.9	96.0	94.0							
DATE 02-03-75	250	91.7	99.0	95.7	96.1	97.0	91.5	97.0	98.2	97.9	96.4	93.7							
RUN 76-19	315	93.6	95.9	96.9	96.5	97.8	91.5	98.5	97.6	97.4	95.7	92.7							
TAPE B00032	400	92.6	94.7	95.4	96.8	98.0	91.5	99.3	98.6	97.9	95.7	92.1							
BAR 30.1 HG	500	90.7	93.2	94.2	96.7	98.3	91.6	98.1	99.7	98.7	96.7	92.0							
(101978. N/M2)	630	93.0	94.5	97.3	99.0	99.6	91.7	97.9	97.5	97.2	94.4	92.2							
TAMB 68. DEG F	800	93.6	95.2	96.2	97.6	99.3	91.3	97.5	97.9	98.0	95.7	90.9							
(293. DEG K)	1000	91.8	95.8	96.8	99.0	99.8	91.2	97.9	98.2	97.7	95.3	91.3							
THET 34. DEG F	1250	93.1	95.4	99.7	97.7	97.8	91.3	97.3	98.6	98.1	95.3	95.5							
(274. DEG K)	1600	89.7	91.9	94.9	96.1	96.7	91.5	97.4	97.0	96.7	96.5	89.4							
WACT 3.43 GM/M3	2000	88.9	90.5	93.1	95.1	97.4	91.4	97.8	97.0	96.6	97.9	87.8							
(.00343. KG/M3)	2500	84.4	97.1	90.1	92.4	95.7	91.9	91.6	93.5	91.1	96.7	85.3							
RPS 3450. RPM	3150	93.1	96.1	98.1	95.4	94.5	91.0	99.6	99.2	99.7	96.8	93.8							
(97.1. RAD/SEC)	4000	92.8	97.8	98.7	92.3	93.1	91.8	98.6	99.7	99.4	96.4	92.0							
RPK 5553. RPM	5000	89.0	91.6	95.4	98.8	91.9	91.8	99.9	97.0	95.7	95.0	87.4							
(98.1. RAD/SEC)	6300	87.2	90.1	93.0	96.1	90.7	91.6	93.6	95.6	94.8	93.8	84.4							
RPB 8023. RPM	8000	84.4	87.9	91.8	94.7	87.5	91.3	91.8	93.7	91.7	93.1	83.2							
(84.1. RAD/SEC)	10000	81.9	86.2	90.6	93.1	85.0	91.4	90.3	91.7	91.5	93.8	82.6							
NO. OF BLADES 18	12500	79.5	84.3	87.8	90.4	83.6	91.3	88.1	89.4	88.4	93.2	81.5							
FAN TIP SPEED	16000	83.4	80.2	84.0	85.9	80.4	91.3	85.9	86.9	85.2	91.8	81.5							
476. FT/SEC	20000	84.9	83.0	87.2	88.2	83.9	91.3	88.7	88.9	86.3	84.4								
	25000	78.8	84.8	88.7	92.1	86.7	91.2	91.2	90.0	89.2	84.4								
	31500		81.7	86.8	92.1	89.8	91.0	89.4	87.7	86.6									
	40000							82.3											
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		95.8	97.7	99.3	99.8	99.8	96.2	97.9	99.0	98.8	97.8	95.9							
PNDB		94.8	99.9	99.1	99.9	99.4	99.0	99.7	99.1	99.8	99.4	96.9							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE 8-MONTH 88 DAY 8 HR: 0:6

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	154. (2.68)	0.	0.	0.	0.	0.	0.	0.	PWL
	30																			
	35																			
BAD AL 17. FT.	40	22.4	73.4	77.0	80.7	86.0	82.0	79.8	75.2	77.7	78.8	79.2								112.6
S. NI	100	23.4	76.2	74.3	72.8	71.5	72.5	69.5	68.8	71.8	75.6	29.0								107.2
VEHICLE R452	125	70.8	71.0	72.3	70.3	71.6	72.8	70.0	73.0	74.4	75.7	78.5								104.6
SCHFIG 7596G	160	67.7	68.7	68.5	69.0	69.5	71.8	71.5	72.5	74.3	76.6	78.5								104.6
LCS SCHENECTADY	200	67.7	67.3	68.3	69.4	70.4	74.4	73.3	74.9	76.4	78.4	80.0								108.2
DATE 03-03-79	220	69.5	70.3	71.3	71.0	72.3	74.1	74.3	74.8	75.8	77.7	78.2								108.2
RUN 76-28	315	71.5	72.3	72.6	73.4	73.4	74.6	74.1	74.9	75.9	77.2	77.8								108.6
TAPE X06032	400	69.9	70.7	71.3	72.3	73.0	74.5	74.5	75.3	76.0	77.1	77.4								108.3
BAR 30.1 HG	500	68.0	69.9	69.7	72.2	73.2	74.7	76.4	76.7	76.9	77.8	76.8								108.6
101376. N/M2)	630	71.2	72.0	73.6	75.1	76.3	76.1	79.-	79.4	79.4	79.6	77.0								111.2
TAMB 91. DEG F	800	71.3	71.6	72.4	74.4	74.9	74.1	7[illegible]	78.2	79.3	78.7	75.8								110.1
(278. DEG K)	1000	69.2	71.3	72.1	74.0	76.1	75.1	79.[illegible]	8[illegible]1	8[illegible]9	8[illegible]4	76.7								112.1
THET 30. DEG F	1250	68.8	69.6	71.9	73.7	76.4	74.1	79.3	80.2	80.5	81.3	76.1								111.4
(274. DEG K)	1600	70.2	71.2	73.0	77.3	79.3	77.2	83.9	82.6	84.6	82.9	27.2								114.6
MACT 3.13 GM/M3	2000	67.0	69.1	70.1	72.7	74.1	74.6	77.8	79.2	80.0	79.1	73.3								110.9
(.00313 KG/M3)	2500	71.3	72.8	74.1	76.9	78.9	78.0	84.6	85.7	85.8	84.3	77.7								115.9
RPS 6222. RPM	3150	80.1	79.4	8.6	83.9	86.4	86.3	94.8	97.2	9[illegible]0	0[illegible]7	85.2								12514
(651. RAD/SEC)	4000	21.9	73.7	75.4	79.3	81.7	76.3	87.5	87.5	88.6	85.9	79.2								118.5
RPK 6333. RPM	5000	78.9	72.7	75.2	79.6	82.7	79.6	86.8	87.8	88.4	84.7	78.8								117.9
(663. RAD/SEC)	6300	80.9	78.8	73.3	76.9	79.5	79.6	83.8	86.5	87.5	82.4	76.2								116.2
RPD 8023. RPM	8000	80.9	78.8	73.2	76.8	78.6	79.4	83.4	86.4	87.2	84.4	77.7								116.3
(.926. RAD/SEC)	10000	86.3	78.1	73.8	76.7	78.9	79.1	83.5	86.2	88.1	83.8	76.1								116.6
NO. OF BLADES 19	12500	87.9	81.8	78.3	76.4	78.4	79.6	82.9	87.8	87.7	83.8	78.7								117.1
TAN TIP SPEED	16000	86.4	80.5	77.2	76.1	77.6	79.3	82.3	85.6	86.9	83.8	78.9								116.8
943. FT/SEC	20000	86.8	80.9	77.8	76.4	78.8	79.4	84.8	86.4	88.4	83.6	75.7								117.6
	25000	86.1	80.1	78.2	76.7	77.5	78.4	82.5	85.1	86.7	82.7	74.4								117.0
	31500	84.9	67.4	80.3	76.1	76.2	78.3	82.1	84.3	85.7	81.2	73.4								117.1
	40000	84.6	84.4	84.0	78.8	74.5	78.3	79.9	82.5	82.8	79.6	69.6								115.1
	50000	82.3	83.3	82.4	85.1	86.9	84.3	73.7	74.2	75.7	72.9	62.7								119.9
	63000	59.8	80.1	90.5	87.2	87.8	86.8	63.3	63.5	64.3	62.6	57.4								123.9
	80000	84.1	84.4	84.2	83.1	82.9	84.1	64.3	63.5	62.5	62.4	62.7								111.0
OVERALL WEIGHTED																				
SMALL CALCULATED		85.6	84.2	88.1	90.8	92.8	92.3	98.4	100.5	99.7	97.5	92.4								130.5
PWL		108.8	108.7	108.1	108.4	108.7	108.8	113.8	113.8	112.9	112.8	108.2								

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 08 DAY 6 HR' 0:6

MODEL SOUND PRESSURE LEVELS (50' DEG' F' 70 PERCENT REL' HUM' DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53; (0.92)	62; (1.08)	71; (1.24)	81; (1.41)	91; (1.58)	101; (1.76)	111; (1.94)	122; (2.13)	133; (2.32)	143; (2.50)	156; (2.72)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	0; (0.)
50																	
63																	
SIREL180 2800 RTT																	
4.68.76 HZ																	
VEHICLE R853																	
CONFIG 7996C																	
LCB SCHENECTADY																	
DATE 82003-25																	
RUN 76-20																	
TAPE 800682																	
BAR 30.1 HG																	
401970; N/M2)																	
TAMB 41; DEG F																	
(278; DEG K)																	
TMBT 34; DEG F																	
(274; DEG K)																	
WABT 5.13 GM/M3																	
4100313. KG/M3)																	
RPS 8222. RPM																	
(851. RAD/SEC)																	
RPK 8233. RPM																	
(863. RAD/SEC)																	
RPB .0023. RPM																	
(256. RAD/SEC)																	
NO. OF BLADES 8																	
FAN TIP SPEED																	
9431 FT/SEC																	
	10000	27.0	32.5	36.9	42.7	44.5	48.0	47.2	48.7	45.7	36.0	24.5					
	12500	31.0	37.3	42.4	48.2	48.0	48.0	44.2	43.9	40.7	27.0	3.0					
	16000	34.0	37.7	41.8	46.2	48.0	48.0	43.1	42.7	42.3	42.0	24.7					
	20000	37.2	40.3	44.9	49.2	51.0	47.2	39.1	36.2	38.6	40.5	30.2					
	25000	32.0	39.2	23.6	29.0	32.0	28.5	35.4	36.9	38.1	14.0						
	31500		6.7	12.1	19.0	21.7	17.9	24.2	21.8	15.6							
	40000				1.1	5.2	6.5	6.1	1.4								
	50000																
	63000																
	80000																
OVERALL SPL	1750	84.8	81.9	84.1	84.9	88.7	87.7	73.4	74.1	78.8	67.6	59.4					
	2500	73.0	78.3	78.0	80.7	83.2	84.1	68.8	69.6	85.8	82.1	71.3					

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BASE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 04 DAY 6 HR. 0'0

MODEL SOUND PRESSURE LEVELS (50. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

	FREQ:	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	.0. .0.	.0. .0.	.0. .0.	.0. .0.	.0. .0.	PWL
	20																	
	63																	
RADIAL 17. FT.	80	71.9	73.4	77.0	80.5	79.7	80.7	79.8	76.2	78.7	79.8	82.4						113.0
(S. HI	100	69.2	73.2	73.3	71.8	71.0	71.0	78.8	71.5	75.0	79.1	82.7						108.0
VEHICLE R959	125	77.9	80.8	80.6	77.8	75.3	74.6	73.8	76.6	77.3	79.9	82.5						112.7
ROBFIG 7906C	160	70.7	71.5	71.3	72.3	72.0	73.5	74.8	75.8	78.0	80.4	82.2						107.7
LCG SCHENECTADI	200	69.9	69.8	70.6	71.6	73.1	74.6	75.8	77.6	79.1	81.7	83.5						111.1
DATE 02-03-75	250	73.5	73.5	75.1	75.6	75.8	76.1	76.3	78.6	79.2	81.7	82.8						112.1
RUN 76021	315	74.2	75.1	75.3	75.9	75.9	76.9	77.6	77.6	78.9	80.4	81.5						111.5
TAPE E88032	400	72.9	73.7	73.8	74.8	75.8	77.0	77.2	77.8	78.8	80.6	80.7						111.8
BAR 30.1 HG	500	71.6	72.4	72.7	74.4	75.9	76.9	78.4	79.2	79.7	80.9	80.6						111.4
(101770. N/M2)	630	73.2	74.0	75.6	77.1	78.3	79.1	82.3	82.1	82.1	81.2	80.5						113.8
TAMB 40. DEG F	800	74.0	74.8	75.1	76.1	77.6	78.4	80.6	81.2	81.7	81.2	78.8						112.0
(278. DEG K)	1000	71.2	73.3	74.3	76.8	77.8	78.3	81.5	82.6	83.4	82.7	79.3						113.7
TWET 34. DEG F	1250	71.3	71.6	73.9	76.7	77.9	78.1	81.8	82.7	83.7	83.3	79.0						113.9
(274. DEG K)	1600	71.4	72.2	73.8	75.8	77.0	78.2	81.2	81.1	82.1	82.9	26.0						112.6
WAGT 3.43 GM/M3	2000	70.8	72.1	73.9	75.7	77.1	78.1	81.3	82.2	82.7	80.4	77.0						112.9
(.00343 KG/M3)	2500	73.8	74.6	76.3	79.6	81.3	78.8	85.7	86.9	87.7	84.3	79.4						117.2
RPS 788. RPM	3150	77.4	78.9	82.9	87.8	88.9	88.0	91.3	92.8	94.3	88.9	84.5						122.9
(7331. RAD/SEC)	4000	75.9	77.7	81.1	85.3	86.9	86.5	91.5	92.5	93.1	88.2	82.7						122.7
RPM 7134. RPM	5000	73.7	75.7	77.9	81.5	84.7	85.0	89.8	91.2	89.8	85.3	80.0						120.1
(747. RAD/SEC)	6300	71.4	73.8	76.2	79.7	81.9	82.3	87.8	89.5	90.4	84.8	78.1						119.2
RPS 88.23. RPM	8000	71.1	73.5	76.1	80.2	82.1	82.1	87.3	90.4	90.4	84.2	77.7						119.7
(923. RAD/SEC)	10000	71.2	73.8	76.7	79.9	81.9	82.3	87.5	89.4	91.6	84.7	78.6						119.8
NO. OF BLADES 15	12500	70.7	73.3	76.3	79.6	81.9	82.9	87.1	90.0	91.5	85.3	78.4						120.1
FAN TIP SPEED	16000	69.7	71.7	75.2	78.9	81.1	82.3	86.3	89.3	90.0	84.8	77.6						119.5
611. FT/SEC	20000	69.5	72.9	76.5	79.8	81.5	82.7	87.3	90.2	92.1	85.9	78.5						121.2
	25000	69.0	71.7	75.1	78.2	80.8	82.0	86.8	89.7	90.5	86.8	78.2						121.0
	31500	68.8	71.3	73.9	78.0	79.6	81.4	85.9	88.4	89.9	84.1	76.8						120.1
	40000	66.0	69.1	71.1	76.0	78.2	79.6	84.1	86.2	87.2	82.3	73.7						118.1
	50000	63.4	64.8	65.1	68.6	71.4	73.3	78.8	78.7	79.6	74.1	65.2						114.9
	63000	58.2	60.4	58.8	59.5	63.9	65.9	67.4	67.5	68.3	64.8	57.7						107.2
	80000	56.4	64.9	64.6	63.4	63.2	64.4	64.6	63.9	62.6	62.7	63.0						111.4
OVERALL MEASURED																		
OVERALL CALCULATED		87.8	88.2	91.9	93.8	93.5	94.4	99.8	101.6	102.7	98.4	93.8						126.6
	PNDB	99.8	101.8	104.3	107.5	107.2	108.8	112.5	113.8	114.9	111.8	107.4						

ORIGINAL PAGE IS OF POOR QUALITY

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BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 06 DAY 6 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	-3. (0.12)	42. (1.00)	71. (1.24)	61. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.71)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																		
63																		
80	48.8	50.8	54.9	58.0	58.2	57.0	56.8	53.2	54.4	53.4	52.5							
100	45.5	50.5	51.2	50.1	49.4	50.3	48.9	48.5	50.6	52.8	52.7							
125	53.2	58.0	58.4	56.0	53.7	52.8	51.5	53.4	52.8	53.8	52.3							
160	46.8	48.6	48.0	50.4	50.3	52.6	50.4	52.5	53.4	53.5	51.8							
200	45.5	46.8	48.7	49.7	51.3	53.4	53.4	54.3	54.4	54.7	52.9							
250	49.4	50.5	52.7	53.6	53.7	54.8	55.8	55.2	54.8	54.6	51.2							
315	50.1	51.9	52.9	53.8	53.9	54.7	55.6	54.1	53.9	53.2	50.4							
400	48.6	50.4	51.2	52.4	53.6	53.8	54.5	54.1	53.7	53.8	49.4							
500	47.2	49.8	50.8	52.2	53.8	53.8	55.6	55.5	54.5	53.2	49.8							
630	50.1	50.5	52.8	54.7	54.1	53.7	55.4	56.3	54.7	54.8	50.7							
800	49.8	51.6	52.2	53.6	55.3	53.8	57.5	57.2	56.1	53.8	49.4							
1000	46.7	49.5	51.6	54.2	55.3	53.7	58.4	58.2	57.7	54.8	47.0							
1250	46.8	47.7	50.7	53.8	55.3	53.3	58.5	58.4	57.8	54.9	46.2							
1600	46.2	48.1	50.4	52.9	54.2	53.3	57.7	56.6	56.4	52.2	43.6							
2000	45.4	47.8	50.3	52.6	54.2	53.9	57.6	57.9	56.3	51.8	43.3							
2500	47.4	50.4	52.6	54.4	56.2	55.4	61.8	62.6	61.1	55.6	45.3							
3150	51.1	54.2	56.9	58.4	60.5	60.3	67.1	67.7	67.3	59.8	49.6							
4000	49.2	52.4	54.7	56.3	58.1	57.5	64.9	64.7	63.7	57.6	46.7							
5000	46.8	50.1	53.2	54.9	56.8	56.8	64.9	64.2	61.9	54.8	43.4							
6300	43.8	47.4	50.6	54.0	57.2	56.4	64.4	62.6	61.8	52.8	39.7							
8000	41.9	46.9	49.3	54.2	54.3	57.8	63.5	64.2	60.8	52.1	38.4							
10000	40.2	44.5	48.5	52.6	54.9	57.1	59.1	59.4	59.1	47.6	33.4							
12500	36.8	41.4	45.8	49.9	52.3	54.9	56.3	57.5	55.9	44.3	27.5							
16000	30.2	35.7	40.8	45.2	47.7	50.8	51.6	52.4	49.4	36.8	17.2							
20000	24.7	31.8	37.2	40.7	43.7	46.4	47.5	47.7	44.8	31.1	9.7							
25000	15.7	22.3	28.5	33.1	36.2	38.7	39.7	39.8	33.7	18.1								
31500	2.0	10.7	16.8	22.9	25.1	27.0	28.1	25.9	19.1									
40000				9.8	8.7	10.2	10.3	6.1										
50000																		
63000																		
80000																		
OVERALL SOUND LEVEL	51.3	54.4	56.7	59.6	61.3	60.2	64.3	64.1	63.4	57.7	52.5							
PNDB	73.8	76.5	80.1	83.9	85.7	82.1	88.1	88.4	87.9	81.5	72.6							

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BASE 1 — FULL SCALE DATA REDUCTION PROGRAM — PROC. DATE = MONTH 12 DAY 6 YR. 0:0

MODEL SOUND PRESSURE LEVELS (90. DEG. FT 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ	31. (0.92)	42. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	50																			
	63																			
RADIAL 17. FT.	80	77.6	65.2	66.5	67.5	67.7	74.7	73.0	74.7	77.6	81.8	89.4								110.6
S. NO.	100	73.4	70.2	71.5	71.5	72.3	75.5	72.8	73.8	77.5	82.6	86.0								111.3
VEHICLE R55	125	78.7	75.0	76.8	75.3	76.3	77.8	76.1	79.6	80.1	82.9	86.0								113.6
CONFIG 7506C	160	78.2	74.2	74.5	74.8	74.5	75.5	77.8	79.0	80.8	83.4	85.7								113.2
LOC SCHENECTADY	200	76.7	72.8	74.1	74.6	74.1	75.1	79.6	80.6	81.6	85.4	87.3								114.6
DATE 02-03-75	250	80.2	77.5	79.6	79.8	80.3	81.8	82.4	84.1	84.6	86.2	87.8								118.8
RUN 76022	315	77.3	78.1	76.3	78.4	78.6	79.9	80.6	80.6	81.9	83.9	85.3								114.7
TAPE E0803E	400	76.7	76.5	76.5	77.3	78.5	79.8	80.0	80.8	81.8	83.9	84.2								114.2
BAR 30.1 NO	500	74.1	74.4	75.2	76.4	77.7	79.4	80.6	81.7	82.9	84.0	83.6								114.1
(1270. N/M2)	630	76.5	76.5	78.3	79.3	80.6	81.1	83.8	83.9	84.1	84.4	83.5								115.9
TAMB 41. DEG F	800	77.3	77.3	77.8	78.9	79.9	79.9	82.8	83.2	83.9	83.5	82.5								115.2
(278. DEG K)	1000	74.7	75.5	76.3	78.6	79.8	79.1	83.8	84.4	85.1	83.9	82.0								115.7
TWBT 34. DEG F	1250	75.3	74.6	76.4	78.4	80.1	79.4	84.1	84.4	85.2	83.8	81.3								115.7
(274. DEG K)	1600	78.2	75.8	76.3	78.3	79.3	78.7	83.4	83.3	83.6	82.2	79.9								114.7
WABT 3.13 GM/M3	2000	79.4	82.4	85.4	84.7	84.4	78.1	89.3	92.9	91.2	87.3	82.5								121.7
(.00313. KG/M3)	2500	77.8	77.6	79.6	82.7	84.6	81.3	88.2	89.4	91.2	86.1	82.0								120.3
RPM 7770. RPM	3150	80.8	79.2	81.6	84.7	87.4	84.1	91.8	92.8	94.3	88.7	83.7								123.8
(814. RAD/SEC)	4000	82.9	82.2	86.7	89.5	91.4	88.1	96.6	98.3	97.6	92.2	87.5								127.5
RPK 7900. RPM	5000	79.9	78.8	81.2	84.1	86.7	83.1	92.0	92.3	94.4	88.7	84.5								122.2
(828. RAD/SEC)	6300	81.7	78.8	80.8	83.3	85.0	82.1	91.9	91.7	93.6	88.6	84.4								122.2
RPD 8823. RPM	8000	82.1	77.1	78.9	83.8	85.4	82.2	90.9	93.2	93.7	88.4	82.2								122.7
(924. RAD/SEC)	10000	84.1	78.6	80.0	83.7	85.7	82.1	91.5	93.6	93.9	87.3	81.1								123.4
NO. OF BLADES 19	12500	83.7	77.8	80.1	82.9	85.1	82.6	91.4	93.3	94.3	87.3	81.7								123.4
FAN TIP SPEED	16000	85.8	75.7	79.5	81.4	83.8	81.8	89.8	92.1	93.3	86.3	80.1								122.8
670. FT/SEC	20000	86.9	76.7	80.3	82.4	84.5	81.4	91.5	93.7	94.8	88.9	81.2								124.7
	25000	86.1	76.1	78.7	81.2	84.3	81.9	91.0	93.8	94.9	89.4	81.8								125.3
	31500	86.1	74.9	77.8	81.4	83.8	81.0	89.8	92.3	93.0	87.2	78.9								124.7
	40000	89.6	73.4	75.1	79.3	81.7	79.6	87.6	89.3	89.7	85.8	74.8								124.1
	50000	88.1	67.1	67.8	73.3	75.2	73.8	81.2	82.0	82.4	79.1	67.7								120.7
	63000	83.8	60.1	59.5	64.5	66.3	64.3	78.3	71.0	71.5	67.8	59.2								118.7
	80000	89.6	66.4	64.2	63.1	62.9	64.1	64.3	63.5	62.3	62.4	62.7								129.5
OVERALL MEASURED																				
OVERALL CALCULATED		78.8	73.8	74.5	76.3	78.1	78.3	103.3	103.1	103.5	100.9	96.2								136.3
	PWL	106.8	104.8	107.7	110.8	111.8	108.3	116.3	117.9	117.9	113.8	110.3								

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CASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 12 DAY 8 YR. 80

MODEL SOUND PRESSURE LEVELS (90. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	142. (2.48)	150. (2.62)	0.	0.	0.	0.	0.	0.	0.
30																		
63																		
80	94.8	92.8	44.4	43.8	46.2	48.8	56.8	51.7	53.7	54.1	52.3							
100	97.7	97.5	49.4	49.8	50.7	53.8	58.5	58.7	53.1	55.8	55.7							
125	94.9	95.2	54.6	53.5	54.7	56.0	55.8	56.4	55.6	56.2	55.8							
160	94.8	91.3	52.3	52.9	52.8	56.6	55.4	55.8	56.2	56.5	55.3							
200	94.8	49.8	51.8	52.7	54.3	57.1	57.1	57.2	56.9	58.9	56.6							
250	96.2	94.5	57.2	57.8	58.5	59.9	59.1	59.7	59.8	59.1	58.2							
315	93.1	94.9	55.9	56.3	56.6	57.7	58.2	57.1	56.9	56.7	54.2							
400	92.8	93.2	53.9	55.1	56.5	56.5	57.2	57.1	56.7	56.6	53.4							
500	89.7	91.8	52.5	54.2	55.5	56.1	57.8	56.9	57.7	56.4	52.9							
630	92.8	93.8	55.5	57.8	58.3	57.7	59.9	61.8	58.8	58.7	51.7							
800	92.8	93.7	54.7	56.4	57.5	58.3	59.8	59.2	58.4	57.5	50.4							
1000	89.9	91.8	53.3	56.8	57.3	58.4	60.6	60.2	59.4	55.8	49.5							
1250	90.3	90.7	53.2	55.7	57.5	59.6	60.8	60.1	59.3	55.4	48.5							
1600	93.8	91.1	52.9	55.4	56.5	58.8	58.9	58.8	57.5	53.5	44.6							
2000	93.8	89.2	51.8	51.6	51.4	52.9	65.4	64.2	64.8	58.3	48.8							
2500	92.1	93.1	55.9	59.4	61.5	58.8	65.4	64.5	64.6	54.7	47.8							
3150	94.8	94.2	57.6	61.2	60.8	60.5	67.6	66.7	67.3	58.3	50.8							
4000	96.8	94.7	62.2	63.8	61.6	62.8	71.4	72.5	70.8	61.8	51.5							
5000	93.1	92.6	56.5	59.8	62.6	58.8	67.2	66.2	63.4	55.7	44.9							
6300	93.7	90.6	54.6	58.3	60.2	57.2	66.1	64.9	64.8	54.3	42.8							
8000	93.8	89.5	53.3	57.8	58.5	56.1	64.1	65.8	63.2	54.2	41.8							
10000	93.8	87.3	51.9	56.2	58.3	56.4	63.1	64.8	61.3	56.6	39.1							
12500	89.8	83.8	49.5	52.1	55.6	55.8	68.6	68.7	58.2	46.9	38.7							
16000	86.7	89.2	45.1	48.2	50.7	47.1	55.2	55.2	52.4	39.8	37.8							
20000	91.4	85.3	48.9	44.2	46.6	44.1	91.7	91.1	47.5	33.1	8.5							
25000	82.8	80.9	32.1	36.1	37.6	38.5	43.9	43.2	38.1	31.8								
31500	80.1	14.8	20.6	26.2	28.9	25.8	32.5	20.8	22.2	1.8								
40000	4.9		2.3	9.1	12.4	8.3	13.9	9.4										
50000																		
63000																		
80000																		
OVERALL SAE PWL	97.8	96.8	69.4	71.8	73.4	70.8	77.2	77.8	73.8	71.2	69.9							
PNLD	99.8	99.5	83.4	84.2	88.1	84.5	91.8	92.3	98.8	83.8	85.3							

BASE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS 100. DEG. FV 70 PERCENT REL. HUM. DAY PROC. DATE = MONTH 04 DAY 8 YR 80

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.72)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 19; FT.	80	78.6	91.2	74.7	78.2	77.7	78.2	78.2	75.7	78.9	82.8	84.9							112.7
S. NI	100	86.7	90.3	71.2	71.6	72.8	79.5	73.9	74.8	77.3	82.1	86.0							111.1
VEHICLE 8899	125	75.7	97.8	77.1	75.6	75.8	78.6	77.8	79.3	79.8	82.7	86.8							113.3
CONFIG 7906C	160	73.7	74.7	74.5	75.0	74.8	78.3	77.5	78.8	81.8	83.9	86.8							113.1
LOC SCHENECTADY	200	72.2	72.6	73.8	74.6	75.9	78.1	79.3	80.6	82.1	84.4	86.8							114.1
DATE 02-03-79	250	77.2	97.5	79.3	79.8	81.0	81.8	83.1	84.3	84.9	86.1	87.3							117.8
RUN 76-23	315	77.5	97.8	78.1	78.9	78.9	81.1	83.3	83.4	81.9	84.2	85.5							114.8
TAPE 888888	400	29.7	76.2	78.9	77.3	78.3	79.9	83.2	81.8	81.8	83.8	84.2							114.8
BAR 30.1 HG	500	74.1	94.6	75.2	76.9	77.7	77.9	81.1	81.7	82.7	83.8	83.3							114.1
681576; N/M2)	630	76.2	76.5	78.3	78.8	80.8	78.8	83.8	84.1	84.1	84.4	83.8							113.9
TAMB 41; DEG F	800	77.1	97.6	77.6	78.9	80.1	81.1	82.4	83.7	84.7	83.5	41.8							113.6
(278; DEG K)	1000	74.7	95.8	76.8	78.6	80.1	81.1	83.8	84.9	85.4	84.2	82.0							113.7
TSET 34; DEG F	1250	74.3	74.9	76.4	78.4	80.1	81.4	84.1	84.4	85.2	83.8	81.6							113.8
(274; DEG K)	1600	74.2	75.2	77.0	78.1	79.5	80.7	83.2	83.8	84.1	82.2	79.9							114.8
WACT 3.33 GM/M3	2000	80.6	82.3	85.4	84.2	84.6	85.3	89.8	92.9	91.8	87.8	82.5							121.7
(.00331; KG/M3)	2500	76.6	97.6	79.6	82.9	84.4	85.8	88.5	89.7	91.5	85.8	83.2							120.3
RPM 7789; RPM	3150	77.9	78.9	81.9	85.2	87.2	88.3	92.8	92.5	93.8	88.6	83.7							123.8
(815; RAD/SEC)	4000	81.9	82.8	86.4	90.3	91.7	92.8	96.8	96.3	97.3	92.2	87.5							127.6
RPM 7987; RPM	5000	78.4	98.5	80.2	84.1	84.5	86.1	92.3	93.8	91.8	87.0	81.2							122.5
(836; RAD/SEC)	6300	79.2	97.1	79.8	83.3	85.1	86.1	91.5	92.9	92.2	86.6	80.7							122.2
RPD 83.3; RPM	8000	76.9	97.9	79.9	83.8	85.8	86.2	91.1	92.4	92.7	86.6	80.8							122.8
(8721; RAD/SEC)	10000	75.1	76.9	80.8	83.2	85.9	86.2	91.5	92.4	93.0	87.8	81.4							123.5
NO. OF BLADES 19	12500	74.9	97.8	80.1	82.9	85.4	86.4	91.1	94.3	93.7	88.9	81.4							123.6
FAN TIP SPEED 678; FT/SEC	16000	72.9	95.7	79.1	81.8	84.1	86.6	90.1	92.6	92.5	86.6	79.9							122.3
	20000	73.3	76.7	80.3	82.7	85.8	86.2	91.9	93.9	94.6	89.1	81.8							124.4
	25000	72.9	95.4	78.7	81.2	84.5	86.9	91.8	94.1	94.7	89.7	81.9							123.2
	31500	71.4	74.8	77.5	81.1	83.2	86.2	89.8	92.6	93.6	88.8	80.9							124.6
	40000	69.6	93.1	76.6	79.3	81.7	84.4	87.6	89.2	90.8	85.3	79.8							123.2
	50000	64.8	67.1	67.4	71.6	74.7	76.6	81.2	82.5	82.7	78.1	67.7							118.1
	63000	59.0	61.1	59.5	62.2	64.6	66.6	70.3	71.5	71.3	67.2	58.9							110.8
	80000	54.1	54.6	54.2	53.1	52.9	54.1	54.3	53.9	52.3	52.4	52.7							111.8
OVERALL MEASURED																			
OVERALL CALCULATED		90.4	91.6	94.8	96.3	98.3	99.4	103.5	103.4	103.4	101.6	98.1							120.8
PNLD		101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8							

ORIGINAL PAGE IS OF POOR QUALITY

BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 04 DAY 0 HR' 0'0

MODEL SOUND PRESSURE LEVELS (56' DEG' F' 70 PERCENT REL' HUM' DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ	93. (0.72)	82. (1.60)	71. (1.24)	61. (1.41)	51. (1.98)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	154. (2.3)	0.	0.	0.	0.	0.	0.	0.
20																		
25																		
31	97.0	48.5	92.7	94.6	98.2	97.5	94.1	92.7	94.4	93.9	95.8							
40	83.0	48.0	49.2	58.1	98.4	92.8	91.3	91.0	92.9	93.6	95.8							
50	91.7	95.8	94.9	93.8	94.2	97.8	95.5	96.2	95.3	94.6	95.8							
63	90.0	91.8	92.3	93.2	93.8	95.4	95.1	95.5	96.4	97.8	95.5							
80	88.3	89.6	91.9	92.7	94.1	96.1	96.9	97.3	97.4	97.8	96.1							
100	93.2	94.5	96.9	97.8	99.8	98.8	98.4	98.9	98.8	99.4	96.4							
125	93.8	94.6	95.6	96.8	98.9	98.8	97.7	97.1	96.8	96.9	94.5							
160	91.4	92.7	93.9	95.1	96.2	96.5	97.5	97.4	96.2	96.2	92.9							
200	89.7	91.2	92.5	94.7	95.3	96.6	98.3	98.8	97.8	96.8	91.8							
250	91.7	93.8	95.9	96.5	98.6	99.4	98.9	98.3	98.8	98.7	91.9							
315	92.8	94.8	94.7	96.4	97.8	98.6	97.5	97.7	97.1	96.1	87.6							
400	89.9	92.8	93.8	94.8	97.2	98.4	98.6	98.8	98.6	98.8	89.5							
500	89.8	91.1	93.7	95.1	96.7	97.8	97.7	97.3	98.8	98.3	86.6							
630	85.1	87.8	91.8	91.1	91.7	93.2	93.3	93.2	94.6	94.8	80.8							
800	81.1	83.1	85.7	87.6	91.2	91.7	94.6	94.7	94.8	94.9	80.8							
1000	81.8	84.1	87.9	91.8	94.7	96.7	97.9	97.2	96.8	96.4	80.8							
1250	85.4	86.7	92.8	94.3	97.2	98.4	97.8	97.8	98.7	96.8	81.8							
1600	89.8	92.9	95.5	97.8	98.4	97.8	97.6	97.8	98.3	96.6	84.9							
2000	87.6	90.7	94.3	96.3	96.2	96.1	96.3	96.2	96.3	96.2	82.2							
2500	85.3	87.8	91.8	93.3	94.6	94.8	94.3	94.3	94.6	94.7	81.7							
3150	84.8	87.7	91.9	93.7	94.8	94.7	94.3	94.3	94.6	94.7	81.7							
4000	85.4	87.7	92.8	94.3	97.2	98.4	97.8	97.8	98.7	96.8	81.8							
5000	89.8	92.9	95.5	97.8	98.4	97.8	97.6	97.8	98.3	96.6	84.9							
6300	87.6	90.7	94.3	96.3	96.2	96.1	96.3	96.2	96.3	96.2	82.2							
8000	85.3	87.8	91.8	93.3	94.6	94.8	94.3	94.3	94.6	94.7	81.7							
10000	84.8	87.7	91.9	93.7	94.8	94.7	94.3	94.3	94.6	94.7	81.7							
12500	81.8	85.2	87.3	91.1	93.8	93.8	93.2	91.7	90.1	87.7	80.8							
16000	84.4	89.2	44.6	48.5	91.8	48.1	89.4	88.2	91.9	58.8	82.8							
20000	88.6	85.3	48.9	44.3	47.1	48.8	91.7	91.4	47.2	33.4	8.2							
25000	89.6	86.2	32.1	36.1	39.9	36.6	43.0	43.4	37.0	22.1								
31500	9.8	14.8	20.7	26.8	28.7	28.9	32.8	30.8	22.2	2.8								
40000			1.8	8.1	12.4	8.8	13.8	8.4										
50000																		
63000																		
80000																		
OVRALL SPL	94.2	96.6	99.6	101.9	103.2	102.8	102.6	102.7	103.2	103.4	88.8							
PNLB	77.8	79.8	83.3	86.7	88.3	87.7	87.2	87.9	88.3	87.7	79.3							

678

FULL SCALE DATA REDUCTION PROGRAM

PROC; DATE & MONTH 00 DAY 0 HR; 0:0

MODEL SOUND PRESSURE LEVELS (90; DEG, FS 70 PERCENT REL, HUM; DAT)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		53; (0.92)	62; (1.08)	71; (1.24)	81; (1.41)	91; (1.58)	101; (1.76)	111; (1.94)	122; (2.13)	133; (2.32)	145; (2.53)	156; (2.73)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	0; (0.)	PWL
	20																			
	25																			
RADIAL 17. FT.	40	88.6	89.2	89.7	92.7	92.2	92.2	89.2	87.7	90.0	92.5	94.2								105.1
S. MI	100	91.2	83.2	88.8	89.0	88.5	92.0	88.8	84.3	89.0	92.4	94.0								102.9
VEHICLE R65S	125	88.7	89.8	91.3	87.3	89.1	89.8	87.1	91.1	90.6	91.4	93.5								104.1
CONFIG Z5868	160	84.6	84.2	85.8	86.3	86.5	90.5	87.5	88.5	90.3	91.8	93.2								102.8
LOC SCHENECTADY	200	83.8	83.6	84.8	85.4	86.1	92.1	89.3	90.4	91.1	93.9	95.0								104.0
DATE 02-03-72	250	86.8	86.8	88.3	88.1	88.8	93.3	90.8	91.1	91.8	93.4	94.5								104.8
RUN 76-24	315	87.7	88.8	89.1	89.1	89.1	92.1	90.8	91.1	91.9	92.7	93.0								104.8
TAPE X08082	400	86.9	88.5	88.3	89.3	89.5	92.8	92.5	91.8	92.8	93.4	92.9								103.2
BAR 30.1 HG	500	85.8	86.7	87.4	88.7	89.9	91.4	92.9	93.4	94.2	94.3	93.1								105.8
(101378, N/M2)	630	87.3	88.8	89.3	90.8	92.6	93.8	96.3	96.1	96.4	96.4	94.0								108.0
TAMB 69; DEG F	800	88.3	88.8	89.4	90.4	91.6	91.8	94.8	95.4	96.7	97.0	95.5								107.4
(294; DEG K)	1000	87.8	88.8	89.1	91.6	93.1	92.8	97.5	98.4	99.4	99.4	97.5								109.6
TWET 34; DEG F	1250	87.8	89.3	93.1	96.4	96.4	95.8	98.8	98.7	98.0	98.8	97.8								113.2
(274; DEG K)	1600	84.9	86.0	88.8	91.1	92.0	94.0	96.2	96.8	97.4	98.4	96.1								108.1
WAST 3.43 GM/M3	2000	84.1	85.4	86.9	88.9	90.4	88.8	94.0	95.9	96.7	97.1	95.2								106.9
(.00343, KG/M3)	2500	89.8	91.3	93.6	95.9	97.8	96.8	96.0	98.2	98.4	98.6	96.4								117.8
NFA 9444; RPM	3150	89.1	90.7	93.4	95.0	97.9	96.8	94.0	96.5	96.5	96.8	95.0								116.1
(989, RAD/SEC)	4000	89.8	92.4	93.1	97.0	99.2	98.8	93.8	96.2	95.2	95.2	93.7								117.0
NFK 9947; RPM	5000	85.9	87.7	90.4	93.0	95.9	94.8	91.3	93.0	93.6	94.3	93.5								113.1
(1041, RAD/SEC)	6300	85.4	86.0	88.0	91.5	93.2	91.8	89.5	92.1	93.4	93.6	93.1								112.3
NFB 8823; RPM	8000	83.6	86.3	88.4	91.0	93.6	94.6	90.1	92.1	92.6	94.3	94.2								112.1
(924, RAD/SEC)	10000	83.2	85.0	88.0	90.9	93.1	94.7	90.2	91.4	94.1	93.5	92.2								112.2
NO. OF BLADES 15	12500	83.7	86.8	89.1	90.9	93.1	94.6	90.1	91.5	94.0	92.8	91.4								111.2
BAR TIP SPEED	16000	81.9	84.2	86.7	89.9	92.1	93.6	89.8	91.8	93.5	90.3	91.4								111.4
475; FT/SEC	20000	82.8	85.8	86.5	89.7	92.3	93.2	90.8	91.9	94.1	91.4	91.5								113.4
	25000	81.2	84.2	85.3	88.7	92.6	92.7	88.3	89.7	92.3	89.8	91.0								112.8
	31500	79.8	82.3	84.2	88.8	91.6	89.6	87.7	89.4	91.4	88.3	88.5								112.9
	40000	78.8	81.1	80.8	87.7	90.4	89.3	85.6	87.2	89.2	86.8	84.2								111.9
	50000	76.1	77.8	76.1	83.8	84.9	84.6	80.5	81.5	87.5	82.8	80.0								108.6
	63000	71.7	73.2	70.8	75.2	76.9	77.9	68.3	70.7	80.5	77.8	70.7								99.4
	80000	66.4	66.8	64.6	63.4	63.2	64.4	64.6	63.9	62.9	62.7	63.0								101.4
OVERALL MEASURED																				
OVERALL CALCULATED		80.8	82.2	83.9	86.1	87.9	88.8	93.2	93.4	96.4	94.8	88.7								120.2
	PNDB	92.9	95.1	96.9	99.2	101.1	98.8	108.2	108.4	110.0	108.8	101.7								

BASE 3 FULL SCALE DATA REDUCTION PROGRAM PROC' DATE = MONTH 08 DAY 4 HR: 0:0

MODEL SOUND PRESSURE LEVELS (90' DEG, F, 70 PERCENT REL, HUD, DAY)

ANGLES FROM INLET IN DEGREES, (AND RADIANS)

FREQ	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.52)	150. (2.73)	0.	0.	0.	0.	0.	0.
80																	
88																	
100	45.0	46.5	47.7	51.1	53.7	54.5	47.6	44.7	45.7	45.9	44.3						
125	57.5	81.0	46.7	47.3	48.9	46.3	44.5	41.2	44.6	49.8	83.9						
160	44.9	46.2	49.1	45.5	47.4	46.0	44.8	47.9	46.1	44.7	43.3						
200	40.5	41.0	43.5	44.4	44.8	46.6	45.1	45.3	45.7	45.8	82.8						
250	39.0	40.0	42.5	43.4	44.3	51.1	46.9	47.0	46.4	47.0	44.4						
315	41.7	43.7	45.9	46.1	46.7	48.3	48.3	47.7	47.8	46.3	83.7						
400	43.6	45.6	46.6	47.0	47.1	51.0	48.2	47.6	46.9	45.4	81.9						
500	42.4	45.8	45.7	47.1	47.5	51.3	49.8	48.1	47.2	45.9	81.6						
630	41.2	43.5	44.7	46.4	47.8	49.1	50.1	48.7	49.0	46.7	81.5						
800	43.0	44.5	47.5	48.5	50.3	51.8	53.4	52.3	51.8	48.7	82.2						
1000	43.6	45.2	46.5	47.9	49.3	49.1	51.8	51.4	51.1	49.8	80.4						
1250	42.1	45.8	47.0	49.0	50.8	49.7	54.4	54.2	53.7	51.3	81.0						
1600	42.8	45.4	50.0	53.7	53.8	52.3	57.5	57.4	57.1	55.4	45.0						
2000	39.7	41.9	45.4	48.1	47.2	49.3	52.7	52.3	51.0	49.7	88.9						
2500	36.6	41.0	43.3	45.8	47.4	48.9	50.3	51.2	50.2	48.0	87.5						
3150	44.1	46.8	48.0	52.6	54.7	51.7	62.1	63.7	61.8	57.2	45.3						
4000	43.1	46.1	48.4	51.4	54.5	51.7	59.8	60.2	59.5	56.8	84.1						
5000	42.8	47.1	48.7	53.0	55.3	52.0	59.1	61.8	61.5	56.6	41.7						
6300	39.2	42.1	45.7	48.8	51.9	49.8	54.8	57.0	55.8	52.9	86.9						
8000	37.4	40.6	43.8	46.6	50.4	49.4	53.9	55.6	54.9	48.8	84.7						
10000	34.4	39.7	41.8	45.0	47.8	48.5	52.3	54.0	52.2	47.3	82.9						
12500	32.2	36.5	39.8	43.1	45.8	48.1	50.8	51.4	51.9	43.8	27.1						
16000	29.8	34.2	38.5	41.1	43.6	46.8	48.3	49.0	48.4	39.7	20.5						
20000	23.4	28.2	32.3	36.5	38.9	43.1	43.9	44.8	42.8	32.5	14.0						
25000	17.6	23.5	27.2	31.8	34.4	38.9	39.2	38.9	36.8	25.6							
31500	7.8	13.8	18.7	23.8	27.9	28.5	31.2	30.8	28.4	12.4							
40000		1.7	7.8	13.6	17.1	18.3	19.8	17.9	10.6								
50000					1.3		1.8										
63000																	
80000																	
OVERALL DB	55.2	57.8	60.1	62.2	64.0	64.0	60.7	59.0	58.2	54.8	95.8						
PNDB	66.5	69.8	72.1	75.3	77.4	77.1	82.1	83.1	82.2	78.8	86.8						

BIBELINE 200' FTT
(60.96 M)
VEHICLE R958
SPECIE 75860
LOC SCHENECTADY
DATE 02MAR-75
RUN 76-24
TAPE X00082
BAR 30.1 HG
(1019.76, N/M2)
TAMB 60. DEG F
(273. DEG K)
THET 34. DEG F
(274. DEG K)
WABT 3.43 GM/M3
(.00343, KG/M3)
RPM 5444. RPM
(570. RAD/SEC)
RPM 5547. RPM
(581. RAD/SEC)
RPM 5533. RPM
(580. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED
475. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 7 DAY 9 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	73.1	69.4	72.7	76.2	76.2	78.2	73.5	69.5	75.0	76.8	75.7							109.8
100	69.4	72.0	75.5	76.5	75.8	77.0	73.8	67.3	69.8	73.6	75.2							108.4
125	69.0	57.5	70.8	67.3	69.3	68.6	67.6	70.8	71.1	71.7	73.8							103.9
150	63.9	65.5	66.0	66.3	66.5	68.0	68.0	68.8	70.3	72.6	74.0							102.8
200	63.0	64.1	64.1	65.1	65.9	69.9	68.8	70.1	71.4	73.9	75.5							103.7
250	66.0	67.0	69.1	66.8	69.3	71.6	71.6	71.1	72.1	73.4	74.5							104.9
315	63.0	69.3	69.1	69.6	69.4	72.1	71.1	70.6	71.4	72.7	73.3							104.8
400	65.9	67.5	67.5	68.8	68.5	71.8	71.0	71.3	71.8	73.1	73.2							104.5
500	65.1	66.4	67.7	66.2	69.4	72.4	72.4	73.2	74.2	74.8	73.1							105.6
630	67.7	68.3	69.8	71.3	72.8	75.6	76.3	76.1	76.9	77.2	74.0							108.5
800	68.0	68.6	69.6	70.6	71.4	75.1	74.6	75.9	75.9	76.5	72.5							107.7
1000	66.7	68.0	69.1	71.1	72.8	76.6	77.3	77.6	78.6	78.9	73.0							109.5
1250	68.6	69.6	71.4	73.7	75.4	79.1	79.8	81.2	83.2	83.5	77.6							113.1
1600	65.2	65.7	68.5	70.3	72.0	75.2	75.9	76.3	76.6	77.4	72.7							108.1
2000	64.6	65.4	67.9	69.4	70.1	73.6	74.1	74.9	75.7	77.1	71.0							106.9
2500	70.1	71.1	74.3	76.4	78.1	81.8	84.0	87.4	88.2	85.0	79.5							117.3
3150	69.1	70.9	72.9	75.2	78.2	82.3	83.5	85.2	86.0	83.7	78.5							116.1
4000	68.7	72.2	73.2	76.5	78.2	82.3	83.6	86.3	88.3	85.0	77.8							116.9
5000	66.2	67.8	70.4	73.6	75.7	80.1	81.3	82.8	82.9	81.3	73.5							113.3
6300	64.9	66.3	68.8	71.8	74.7	79.6	80.3	81.3	83.2	81.4	74.2							112.8
8000	63.6	65.9	68.7	72.5	74.2	78.9	79.4	82.5	82.2	81.4	73.7							112.7
10000	62.8	64.9	68.0	73.0	75.2	79.5	80.5	81.4	83.1	80.8	72.9							113.0
12500	63.1	64.8	68.0	73.4	75.4	78.1	80.1	82.3	83.2	80.3	72.2							113.1
16000	61.7	63.9	66.4	72.4	75.6	78.8	79.3	82.1	82.5	80.3	72.8							113.1
20000	61.4	64.1	66.4	73.9	76.4	80.6	81.2	82.1	83.7	81.4	71.9							114.7
25000	60.5	64.0	65.4	77.5	78.4	80.5	80.9	81.7	81.8	82.1	70.3							115.2
31500	59.0	62.2	64.1	77.0	77.3	79.3	80.6	80.9	80.8	79.6	68.2							115.0
40000	57.8	60.2	60.9	78.3	76.8	78.7	79.4	79.4	77.8	78.0	63.8							115.4
50000	54.8	56.3	55.6	75.8	77.7	74.6	75.7	73.3	69.9	73.0	57.3							113.7
63000	53.5	51.1	49.5	69.2	71.3	67.1	68.3	68.2	59.8	65.3	50.2							109.5
80000	55.7	56.1	53.9	61.8	62.3	60.5	61.3	58.5	52.1	57.2	52.5							106.0
OVERALL MEASURED																		
OVERALL CALCULATED	81.8	82.3	84.4	88.4	89.7	92.7	93.5	95.2	96.1	94.6	88.9							127.2
PNDB	93.0	93.0	96.7	99.2	100.9	104.7	105.6	107.6	108.0	107.5	101.6							

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 74 DAY 0 HR. 0.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	48.5	46.8	50.7	54.6	54.7	56.5	51.3	46.9	50.7	50.4	45.8						
100	44.7	49.2	53.4	54.8	54.2	55.3	51.5	44.2	45.4	47.1	45.2						
125	44.2	44.7	49.6	45.5	47.7	46.8	45.3	47.7	46.6	45.0	43.5						
160	40.0	42.6	43.8	44.4	44.8	46.1	45.6	45.5	45.7	45.8	43.5						
200	39.8	41.1	41.8	43.2	44.1	47.9	46.4	46.8	46.6	47.0	44.9						
250	41.9	44.0	46.7	46.8	47.5	49.5	49.1	47.7	47.3	46.3	43.7						
315	43.8	46.1	46.6	47.5	47.4	50.0	48.5	47.1	46.4	45.8	42.2						
400	41.6	44.2	44.9	46.6	46.5	49.5	48.3	47.0	46.7	45.7	41.9						
500	40.7	43.0	45.0	45.9	47.3	50.1	49.6	49.9	49.0	47.2	41.5						
630	43.2	44.8	47.0	49.0	50.6	53.2	53.4	52.3	51.5	49.4	42.2						
800	43.4	45.0	46.7	48.1	49.0	52.6	51.5	51.9	50.4	48.5	40.4						
1000	41.9	44.3	46.0	48.5	50.3	53.9	54.1	53.5	52.9	50.8	40.5						
1250	43.6	45.7	48.2	50.9	52.8	56.3	56.5	56.9	57.3	55.1	44.7						
1600	40.0	41.6	45.2	47.4	49.2	52.3	52.4	51.8	50.5	48.7	39.4						
2000	35.1	41.1	44.3	46.3	47.2	50.4	50.4	50.2	49.4	48.0	37.3						
2500	44.4	46.6	50.6	53.1	55.0	58.5	60.1	62.5	61.6	56.5	45.3						
3150	43.1	46.1	48.9	51.7	54.8	58.7	59.4	60.0	59.0	55.8	43.6						
4000	42.1	46.9	48.7	52.6	54.4	58.3	58.9	60.5	60.8	54.4	41.8						
5000	39.3	42.2	45.7	49.4	51.7	55.8	56.4	56.8	55.0	50.2	38.9						
6300	37.2	40.0	43.3	46.9	50.0	54.7	54.7	54.4	54.3	49.3	35.7						
8000	34.5	38.2	42.1	46.5	48.3	52.8	52.6	54.3	51.8	47.4	32.5						
10000	31.7	35.5	39.8	45.4	47.8	51.9	52.1	51.5	50.6	43.9	27.7						
12500	29.2	32.9	37.5	43.6	45.8	48.3	49.3	49.7	47.6	39.5	24.2						
16000	23.1	27.9	32.1	38.9	42.4	45.3	44.8	45.2	41.8	33.6	11.5						
20000	18.5	22.7	27.0	35.6	38.6	42.3	41.4	39.6	36.4	25.8							
25000	7.2	14.8	18.8	32.4	33.7	35.3	33.8	31.1	25.0	14.9							
31500		1.6	7.0	21.8	22.8	24.0	22.8	18.4	10.1								
40000				8.2	7.5	8.3	5.7										
50000																	
63000																	
80000																	
OVERALL CALCULATED	56.8	58.0	60.9	63.2	64.5	67.7	67.7	68.4	67.8	64.5	55.8						
PNDB	66.7	69.7	72.6	75.3	77.3	81.0	81.3	82.4	81.6	77.5	66.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE 3-55
CONFIG 75-60
LOC SCHENECTADY
DATE 11-16-75
RUN 75-19
TAPE X00033
BAR 30.1 HG (101.11. N/M2)
TAMB 40. DEG F (278. DEG K)
THET 33. DEG F (274. DEG K)
RHO 2.93 G/M3 (.00293 KG/M3)
NFA 5446. RPM (570. RAD/SEC)
NFK 5549. RPM (581. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 475. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 08 DAY 8 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	72.4	67.2	70.0	76.0	76.2	77.7	73.7	72.0	76.0	78.3	78.9							189.4
100	73.9	76.5	74.3	73.0	71.5	71.8	70.0	68.8	71.8	75.4	79.0							187.8
125	70.0	70.3	72.1	70.8	72.1	71.3	70.3	73.8	73.8	76.9	78.8							187.1
160	67.7	68.2	68.3	69.8	70.0	70.8	71.5	72.8	74.3	76.9	78.5							186.6
200	67.0	67.1	67.8	68.6	70.1	73.6	72.8	74.4	75.6	78.2	79.8							187.8
250	69.7	70.5	71.8	72.3	72.8	74.8	74.6	75.1	76.1	77.7	78.5							188.6
315	71.5	72.3	72.3	73.1	73.1	75.6	74.8	74.6	75.4	77.2	77.5							188.6
400	69.7	71.0	70.8	72.0	72.5	74.8	74.2	75.3	75.8	77.4	77.7							188.3
500	68.6	69.4	70.7	71.9	72.9	75.4	76.1	76.7	77.7	78.5	77.3							189.1
630	71.2	71.5	73.1	74.8	76.6	79.3	79.8	79.9	80.1	79.9	77.5							111.9
800	71.5	71.3	72.4	73.9	74.9	77.6	78.1	78.9	79.2	79.2	76.0							110.7
1000	70.2	71.5	72.1	74.1	75.6	79.1	79.8	80.9	81.6	81.4	76.2							112.3
1250	68.8	69.6	71.4	74.2	76.4	79.6	79.1	79.9	81.0	81.5	76.3							112.0
1600	71.4	71.7	76.0	81.1	84.0	87.2	85.9	83.0	84.1	83.2	76.4							117.3
2000	66.6	69.1	70.4	73.2	74.4	76.8	77.6	78.4	80.0	79.3	73.3							110.3
2500	71.8	74.4	75.8	77.9	79.9	82.3	83.0	84.9	86.5	84.3	78.2							116.1
3150	81.9	88.4	87.4	88.2	89.7	88.9	93.5	95.5	94.0	91.2	85.3							123.3
4000	72.4	73.7	76.2	78.8	81.7	85.6	86.8	87.8	88.8	85.7	79.5							118.7
5000	71.5	73.2	75.9	79.6	83.0	85.6	86.8	88.5	88.1	84.8	79.5							118.7
6300	68.9	70.6	73.0	77.5	79.7	82.9	84.3	86.0	86.5	83.4	77.4							116.5
8000	68.6	70.4	73.0	76.3	78.9	82.4	83.6	86.5	87.2	83.9	77.0							116.7
10000	67.3	69.9	72.0	75.7	77.9	81.8	84.3	86.7	87.4	82.8	76.4							116.8
12500	67.1	68.8	72.9	75.4	77.6	82.1	84.1	86.3	87.2	83.8	75.9							117.5
16000	65.7	67.4	71.4	74.4	76.6	80.3	82.8	85.3	87.3	81.5	75.3							116.3
20000	65.7	68.6	71.4	74.1	76.9	81.9	83.4	86.4	88.0	83.3	75.7							117.7
25000	65.3	67.5	70.1	73.0	76.9	81.3	82.6	85.0	86.8	83.1	74.8							117.4
31500	64.2	67.4	68.8	73.2	76.1	81.1	81.4	84.7	85.3	80.8	72.7							117.2
40000	63.8	65.9	66.1	69.8	72.5	77.4	79.9	81.1	82.5	78.9	68.1							115.8
50000	61.6	62.1	61.4	63.1	66.2	69.6	72.5	73.8	74.4	72.2	62.3							110.3
63000	59.5	59.8	58.2	56.7	57.0	59.6	62.5	63.5	63.5	61.3	57.2							103.5
80000	65.7	66.1	63.9	62.8	62.6	64.8	64.0	63.3	62.1	62.2	62.5							110.7
OVERALL MEASURED																		
OVERALL CALCULATED	86.2	88.9	90.2	92.8	93.9	96.1	98.8	99.8	99.9	97.1	92.5							120.7
PWL	101.0	104.2	105.4	107.8	108.7	109.6	112.3	113.9	113.5	111.3	106.3							

RADIAL 17. FT. (5. M)
VEHICLE B-55
CONFIG 75-60
LOC SCHENECTADY
DATE 01-16-73
RUN 75-20
TAPE K00033
BAR 30.1 HG (1711. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 37. DEG F (274. DEG K)
HACT 2.93 GM/M3 (.00293 KG/M3)
HFA 6211. RPM (650. RAD/SEC)
HFK 6328. RPM (663. RAD/SEC)
HFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 542. FT/SEC

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 08 DAY 0 HR. 0.6

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	69. (1.20)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	149. (2.59)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	48.8	44.5	47.9	54.3	54.7	54.0	51.6	49.0	51.7	51.0	49.0						
(60.96 M)	100	50.2	53.7	52.2	51.3	49.9	50.0	47.8	45.7	47.4	48.1	48.8						
VEHICLE R-55	125	48.2	47.9	49.9	49.0	50.4	49.5	48.0	50.7	49.3	49.5	48.5						
CONFIG 75-60	160	43.8	45.3	48.0	47.9	48.3	48.9	49.1	49.5	49.7	50.0	48.0						
LOC SCHENECTADY	200	43.0	44.1	45.5	46.7	48.3	51.8	50.4	51.0	50.9	51.2	49.1						
DATE 01-16-75	250	45.7	47.5	49.4	50.3	51.0	52.8	52.1	51.7	51.3	50.4	47.7						
RUN 75-20	315	47.3	49.1	49.9	51.0	51.1	53.5	52.2	51.1	50.4	49.0	46.5						
TAPE X87033	400	45.4	47.7	48.2	49.8	50.5	52.5	51.5	51.0	50.7	49.9	46.4						
BAR 99.1 KG	500	44.2	46.4	48.0	49.7	50.8	53.1	53.3	53.0	52.5	50.9	45.8						
(211. N/M2)	630	46.7	46.0	50.3	52.5	54.3	56.9	56.9	56.0	54.8	52.9	45.7						
TAMB 40. DEG F	800	46.9	47.7	49.5	51.4	52.5	55.1	55.0	54.9	53.6	51.3	43.9						
(278. DEG K)	1000	45.4	47.8	49.0	51.5	53.1	56.4	56.6	56.7	55.9	52.3	43.8						
TWET 33. DEG F	1250	45.8	45.7	46.2	51.4	53.8	56.8	55.8	55.6	55.1	53.1	43.5						
(274. DEG K)	1600	46.2	47.0	52.7	58.2	61.2	64.3	62.4	59.3	58.0	54.5	43.1						
RACT 2.93 GM/M3	2000	43.1	44.8	48.8	50.1	51.4	53.7	53.9	53.7	53.6	50.3	39.5						
(.00293 KG/M3)	2500	48.1	49.8	52.1	54.6	56.7	59.0	59.1	60.0	59.8	55.8	44.0						
NFA 6211. RPM	3150	55.9	51.6	53.4	54.7	56.3	65.2	69.4	70.2	67.0	61.3	50.3						
(650. RAD/SEC)	4000	45.9	48.4	51.7	54.8	57.9	61.6	62.2	62.0	61.3	55.1	43.5						
NFK 6328. RPM	5000	44.6	47.4	51.2	55.4	58.9	61.3	61.9	62.5	60.2	53.7	42.9						
(663. RAD/SEC)	6300	41.2	44.5	47.6	52.6	55.8	57.9	58.7	59.1	57.6	51.1	39.8						
NFD 8823. RPM	8000	39.9	42.7	46.4	50.3	53.1	54.3	54.8	54.8	54.8	49.7	35.7						
(924. RAD/SEC)	10000	36.2	40.5	43.8	48.2	50.6	54.2	55.9	54.7	54.8	45.9	31.2						
NO. OF BLADES 15	12500	33.2	36.9	42.0	45.6	48.1	52.3	53.3	53.7	51.6	42.2	28.8						
FAN TIP SPEED	16000	27.1	31.4	37.1	40.9	43.4	46.8	47.9	48.4	46.6	34.2	15.8						
542. FT/SEC	20000	21.1	27.2	32.0	35.9	38.1	43.5	43.6	43.8	40.7	27.6	2.9						
	25000	11.9	18.3	23.5	27.9	32.2	36.0	35.5	34.3	30.0	15.2							
	31500		6.8	11.7	18.1	21.5	24.7	23.6	22.1	14.6								
	40000					3.2	7.0	6.2	0.9									
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		69.6	64.2	66.1	68.2	70.1	71.7	72.9	73.2	71.2	66.6	50.5						
	PNDB	74.8	79.2	81.3	83.4	85.2	85.9	86.1	86.0	86.3	81.4	71.6						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 02 DAY 0 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
RADIAL 17. FT. 80	72.9	68.2	71.0	76.2	76.7	78.0	75.0	74.2	77.2	80.3	82.7							110.0
(5. M) 100	67.9	72.2	73.0	71.8	71.0	72.5	70.8	71.3	74.5	79.1	82.7							108.7
VEHICLE S-55 125	75.5	79.3	80.1	77.6	75.8	75.8	73.8	76.3	77.8	79.9	82.5							112.0
CONFIG 75-60 160	71.7	71.5	71.8	72.3	72.3	74.0	75.0	76.0	77.5	80.6	82.7							110.1
LOC SCHENECTADY 200	70.5	70.1	70.6	71.6	72.9	76.6	76.3	77.9	79.1	81.7	83.5							111.2
DATE 01-16-75 250	74.0	74.0	75.3	75.8	76.6	78.6	78.6	79.1	80.4	81.7	83.0							112.6
RUN 75-21 315	76.3	75.3	75.1	75.9	76.1	78.1	77.6	77.8	78.6	80.7	81.8							111.8
TAPE X00033 400	73.7	73.5	73.8	74.5	74.8	77.6	76.5	78.3	78.8	80.4	80.7							111.2
BAR 30.1 HG 500	73.6	72.6	73.2	74.7	75.7	78.7	78.9	79.9	80.7	81.8	80.6							112.2
(61711, N/42) 630	74.2	73.8	76.1	77.3	78.8	81.8	81.5	82.4	82.4	82.7	80.8							114.3
TAMB 40. DEG F 800	74.3	74.3	75.6	76.6	77.6	80.6	80.3	81.7	81.9	81.7	79.3							113.5
(279. DEG K) 1000	72.7	73.8	74.3	76.6	78.1	81.8	81.8	82.6	83.4	82.4	79.2							114.3
THET 33. DEG F 1250	71.6	71.9	73.6	75.9	77.6	81.1	81.8	82.7	83.5	83.3	79.6							114.3
(274. DEG K) 1600	72.2	73.2	75.3	76.8	78.5	81.5	81.7	82.1	82.4	81.7	77.9							113.9
HACT 2.93 GM/M3 2000	71.6	72.4	74.4	76.7	77.4	80.6	81.1	82.9	83.0	81.8	77.5							113.8
(.00293.KG/M3) 2500	74.1	74.9	76.8	79.7	81.9	85.0	85.0	87.2	88.0	85.6	79.7							118.0
NFA 7000. RPM 3150	77.8	78.9	81.9	85.2	88.4	91.3	91.0	92.7	94.5	89.2	84.3							123.9
(733. RAD/SEC) 4000	76.2	78.2	80.7	83.8	86.7	90.3	91.3	92.8	92.8	88.2	83.3							123.0
NFK 7132. RPM 5000	74.0	75.8	77.9	81.6	84.0	88.3	90.8	91.0	90.1	85.8	80.3							121.3
(747. RAD/SEC) 6300	71.9	74.3	76.8	79.3	81.5	86.9	88.1	89.0	89.7	85.1	78.9							119.6
NFD 8823. RPM 9000	71.4	74.4	76.7	79.8	81.9	86.7	87.9	90.5	90.4	85.6	79.2							120.5
(924. RAD/SEC) 10000	73.8	72.6	76.3	79.5	80.9	86.0	87.8	89.7	90.6	85.3	79.1							120.1
NO. OF BLADES 15 12500	73.4	72.8	76.5	78.6	81.6	85.6	87.9	90.5	91.2	85.8	78.7							120.7
FAN TIP SPEED 16000	69.2	71.4	74.7	77.6	79.6	84.3	86.6	89.3	90.3	84.8	77.6							119.8
611. FT/SEC 20000	69.4	72.1	75.2	77.9	80.2	85.1	87.7	90.6	91.5	86.3	78.2							121.5
25000	68.0	71.6	74.1	76.5	80.1	84.8	86.9	89.2	91.1	86.1	78.0							121.4
31500	67.2	70.4	73.6	76.7	79.1	84.1	86.4	88.4	89.1	83.8	75.5							121.1
40000	65.8	68.4	70.6	74.1	76.8	81.4	83.9	85.4	86.0	82.1	71.1							119.7
50000	62.3	63.8	63.9	66.3	69.7	73.9	77.2	77.8	78.2	75.9	64.3							114.2
63000	59.5	59.8	58.2	57.5	59.5	62.6	66.3	67.2	67.0	63.8	57.2							106.3
80000	65.7	66.1	63.9	62.8	62.6	64.8	64.0	63.8	62.1	62.2	62.9							110.7
OVERALL MEASURED																		
OVERALL CALCULATED	87.5	88.6	90.6	92.9	95.1	98.9	100.8	101.7	102.5	98.6	95.2							102.0
PNDB	100.4	101.5	103.9	106.6	108.9	112.2	112.5	113.8	115.0	111.4	107.9							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM — MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY) — PROC. DATE - MONTH 02 DAY 0 HR. 0.4

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	49.3	45.5	48.9	54.6	55.2	56.3	52.8	51.2	52.9	53.9	52.8						
100	44.2	49.5	50.9	50.1	49.4	50.8	48.5	48.2	50.1	52.4	52.7						
125	51.7	56.5	57.9	55.8	54.2	54.0	51.5	53.2	53.3	53.2	52.3						
160	47.8	48.6	49.5	50.4	50.5	52.1	52.6	52.8	52.9	53.8	52.3						
200	46.5	47.1	48.3	49.7	51.1	54.8	53.9	54.5	54.4	54.7	52.9						
250	49.9	51.0	52.9	53.8	54.7	56.5	56.1	55.7	55.5	54.6	52.2						
315	52.1	52.1	52.6	53.6	54.1	56.0	55.0	54.3	53.7	53.4	50.7						
400	48.4	50.2	51.2	52.3	52.7	55.5	53.8	54.6	53.7	53.2	49.4						
500	49.2	49.2	50.5	52.4	53.5	56.4	56.1	56.2	55.5	54.2	49.0						
630	49.7	50.3	53.3	55.0	56.6	59.4	58.6	58.5	57.0	54.9	48.9						
800	49.6	50.7	52.7	54.1	55.3	58.1	57.3	57.7	56.4	53.8	47.2						
1000	47.9	50.0	51.3	54.0	55.6	59.2	58.6	58.5	57.7	54.3	46.8						
1250	46.6	47.9	50.5	53.2	55.0	58.3	58.5	58.4	57.6	54.0	46.7						
1500	47.0	49.1	51.9	53.9	55.7	58.5	58.2	57.6	56.2	53.0	44.6						
2000	48.1	48.1	50.8	53.6	54.4	57.4	57.4	58.2	56.6	52.8	43.8						
2500	45.4	50.3	53.1	56.4	58.7	61.7	61.1	62.2	61.3	56.2	45.5						
3150	51.6	54.1	57.9	61.7	65.0	67.7	66.9	67.5	67.5	59.3	49.3						
4000	47.6	52.9	56.2	59.8	62.9	66.3	66.7	66.5	65.3	57.4	47.3						
5000	47.1	50.2	53.2	57.4	59.9	64.1	65.9	65.8	62.2	54.7	43.6						
6300	44.2	48.0	51.3	54.4	56.7	61.9	62.4	62.1	60.8	52.8	40.5						
8000	42.3	46.7	50.1	53.8	56.1	60.6	61.1	62.3	60.0	51.4	38.0						
10000	39.7	43.3	48.1	51.9	53.6	58.4	59.4	59.7	58.1	48.4	33.9						
12500	36.5	40.9	46.0	48.8	52.1	55.8	57.1	57.9	55.6	44.2	27.7						
16000	31.6	35.4	40.3	44.2	46.4	50.8	51.9	52.4	49.6	36.7	17.2						
20000	24.8	30.7	35.8	39.6	42.3	46.8	47.9	48.1	44.2	30.4	9.4						
25000	14.7	21.8	27.5	31.4	35.5	39.5	39.8	38.6	34.3	18.2							
31500	1.1	9.8	16.5	21.6	24.5	28.7	28.6	25.9	18.3								
40000				3.9	7.5	11.0	10.2	5.2									
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.0	64.0	66.4	68.8	70.9	74.0	74.1	74.2	73.1	68.0	62.7						
PNDB	74.2	76.0	79.7	82.9	85.5	88.9	88.1	88.4	87.8	81.5	78.7						

SIDELINE 250. FT. (80.95 M)
VEHICLE S-55
CONFIG 75-60
LOC SCHENECTADY
DATE 01-19-75
RUN 75-21
TAPE N00033
BAR 30.1 IN HG (1711. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 33. DEG F (274. DEG K)
HACT 2.93 GM/M3 (.00293 KG/M3)
NPA 7000. RPM (733. RAD/SEC)
NFK 7132. RPM (.747. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED 611. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 0 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																		
63																		
80	72.9	69.2	71.9	76.0	76.7	78.2	76.0	76.2	78.7	82.3	85.7							112.3
100	67.7	71.3	72.5	72.5	73.0	75.3	73.8	74.3	77.8	82.4	86.5							111.6
125	76.0	77.8	77.3	75.6	76.6	77.8	78.1	79.6	80.3	83.2	86.3							113.7
160	73.7	74.2	74.8	74.8	74.8	76.8	77.5	79.0	80.8	83.6	86.9							113.2
200	72.5	72.3	73.6	74.1	76.1	79.6	79.8	80.6	82.4	84.9	87.3							114.4
250	76.2	78.8	80.6	81.1	81.3	83.8	83.8	84.1	84.6	86.9	87.3							117.4
315	77.2	77.8	78.3	78.1	78.9	81.1	79.8	80.9	81.6	83.9	85.5							114.7
400	75.9	76.5	76.5	77.0	78.0	80.3	80.0	80.8	81.5	83.4	84.4							114.1
500	74.1	75.4	75.4	76.9	77.9	81.4	81.6	82.4	83.2	84.3	84.1							114.8
630	76.5	76.3	78.3	79.3	81.1	83.8	84.3	84.4	84.9	85.4	83.8							116.7
800	77.0	76.8	77.9	79.1	80.1	83.4	83.1	84.2	84.4	84.2	82.8							116.1
1000	75.2	76.3	77.1	78.8	80.3	83.8	83.5	84.4	85.4	84.2	82.0							116.3
1250	74.1	74.6	76.4	78.7	80.1	83.1	83.8	83.7	85.0	84.5	81.6							116.0
1600	73.9	75.2	76.0	77.8	79.3	82.7	82.9	83.3	83.4	82.4	80.4							115.1
2000	77.8	77.9	80.9	80.7	81.6	86.1	89.6	91.2	91.0	86.4	82.5							120.9
2500	77.3	78.1	80.6	82.9	85.1	87.8	88.7	90.4	92.5	86.3	82.2							121.4
3150	77.9	79.2	82.1	85.2	87.7	91.3	91.3	92.0	94.3	88.7	83.8							123.6
4000	82.9	83.2	87.4	92.3	93.2	94.3	95.6	98.3	96.6	92.0	88.8							120.8
5000	76.5	78.0	81.2	84.1	86.7	90.8	92.6	92.3	91.6	87.0	82.0							123.1
6300	74.9	77.3	79.8	83.0	85.8	90.4	92.3	92.5	92.0	86.4	81.2							122.9
8000	74.4	77.4	80.0	83.0	85.4	90.7	91.6	93.0	93.7	86.1	82.0							123.5
10000	74.5	75.6	80.0	82.7	84.9	89.5	91.8	92.9	93.6	87.3	81.1							123.4
12500	74.6	76.3	79.8	82.4	85.4	89.1	92.6	93.8	94.2	87.8	80.9							124.1
16000	72.7	75.2	79.2	80.9	83.6	87.8	90.1	92.6	92.8	86.8	80.3							122.9
20000	72.7	75.9	79.7	81.6	84.2	89.6	91.4	93.6	94.5	89.3	81.7							124.8
25000	72.5	75.5	78.6	80.5	83.6	89.0	91.1	94.0	95.1	90.3	82.0							125.6
31500	70.7	74.7	77.3	80.0	82.8	87.8	89.6	92.4	92.8	87.6	79.0							124.8
40000	68.8	72.4	74.4	77.6	80.3	85.4	87.4	89.1	90.3	84.9	74.6							123.5
50000	64.1	66.3	67.6	69.8	73.2	77.6	81.0	81.8	82.4	79.2	67.8							118.1
63000	59.5	59.8	58.2	60.2	62.5	66.6	70.3	71.0	71.0	67.5	58.4							109.9
80000	65.7	66.1	63.9	62.8	62.6	64.8	64.8	63.3	62.1	62.2	62.9							110.7
OVERALL MEASURED																		
OVERALL CALCULATED	90.3	91.4	93.9	96.8	98.5	101.9	103.5	105.1	105.4	101.1	98.5							108.2
PWL	104.2	104.9	108.0	111.4	112.7	115.1	116.1	117.9	117.4	113.8	111.0							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE - MONTH 12 DAY 0 HR. 0.0

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80	49.3	46.5	49.4	54.3	55.2	56.5	53.8	53.2	54.4	55.0	55.8						
100	44.6	48.2	50.4	50.8	51.4	53.5	51.5	51.2	53.4	55.0	56.4						
125	52.2	55.0	55.1	54.0	54.9	56.0	55.8	56.4	55.6	56.5	56.8						
160	49.8	51.3	52.5	52.9	53.0	54.9	55.1	55.8	56.2	56.8	56.8						
200	49.5	49.3	51.3	52.2	54.3	57.6	57.1	57.3	57.6	58.8	56.6						
250	54.2	55.7	58.2	59.1	59.5	61.8	61.3	60.7	59.8	59.0	56.4						
315	52.8	54.6	55.9	56.3	56.9	59.8	57.2	57.3	56.7	56.7	54.5						
400	51.6	53.2	53.9	54.8	56.0	58.0	57.3	57.1	56.4	55.9	53.1						
500	49.7	52.0	52.7	54.7	55.8	59.1	58.8	58.7	58.8	56.7	52.5						
630	52.8	52.8	55.5	57.0	58.8	61.4	61.4	60.9	59.5	57.7	51.9						
800	52.4	53.2	55.6	56.6	57.8	60.8	60.8	60.2	58.9	56.3	50.7						
1000	50.4	52.5	54.0	56.2	57.8	61.2	60.4	60.2	59.7	56.8	49.5						
1250	49.1	50.7	53.2	55.9	57.5	60.3	60.5	59.4	59.1	56.1	48.7						
1600	48.7	50.9	52.7	54.9	56.5	59.8	59.4	58.8	57.2	53.7	47.1						
2000	52.4	53.6	57.3	57.6	58.7	62.9	65.8	66.5	64.6	57.5	48.8						
2500	51.6	53.6	56.9	59.6	62.8	64.5	64.9	65.5	65.8	57.8	48.8						
3150	51.9	54.4	59.1	61.7	64.3	67.7	67.1	66.7	67.3	58.8	48.8						
4000	58.4	57.9	63.0	66.3	69.4	70.3	70.9	72.5	69.8	61.4	52.8						
5000	49.6	52.4	56.5	59.9	62.7	66.6	67.7	66.3	63.7	54.8	45.4						
6300	47.2	51.6	54.3	58.1	60.2	65.4	66.7	65.6	63.1	54.1	42.7						
8000	45.3	49.7	53.4	57.0	59.6	64.6	64.8	64.8	63.3	53.9	40.7						
10000	43.5	47.3	51.8	55.2	57.6	61.9	63.4	63.8	61.1	50.4	35.9						
12500	43.7	44.4	49.3	52.6	55.8	59.3	61.8	61.2	58.6	47.8	30.8						
16000	34.1	39.2	44.8	47.4	50.4	54.3	55.4	55.7	52.1	39.5	20.8						
20000	28.1	34.4	40.3	43.4	46.3	51.3	51.6	51.1	47.2	33.6	8.9						
25000	19.2	26.3	32.8	35.4	39.8	43.8	44.8	43.3	38.3	22.5							
31500	4.6	14.1	20.2	24.8	28.3	32.5	31.8	29.9	22.1	2.8							
40000			1.6	7.4	11.8	15.8	13.7	8.9									
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.5	66.4	69.3	72.4	74.8	76.7	77.2	77.4	75.7	70.4	66.2						
PNDB	77.9	79.8	83.7	87.6	89.8	91.2	91.6	92.8	90.8	83.8	78.8						

SIDELINE 200. FT. (60.96 M)
VEHICLE B-5R
CONFIG 75-6D
LOC SCHEVERTADE
DATE 01-16-75
RUN 75-22
TAPE XDC033
BAR 30.1 HG (101711. N/M2)
TAMB 40. DEG F (278. DEG K)
TWET 33. DEG F (274. DEG K)
WACT 2.93 GM/M3 (.00293 KG/M3)
NFA 7772. RPM (814. RAD/SEC)
NFK 7916. RPM (829. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 678. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 09 DAY 0 HR. 8.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80	72.9	69.2	71.2	76.8	76.7	78.2	76.0	76.8	78.7	82.1	85.2							112.1
(S. M)	100	67.4	70.5	71.8	71.8	72.3	74.8	73.3	73.5	78.8	82.6	86.0							111.3
VEHICLE R-55	125	75.5	77.5	77.1	75.6	75.8	77.6	77.6	79.1	80.3	82.9	86.8							113.4
CONFIG 75-60	160	73.4	74.2	74.3	74.8	74.5	76.5	77.8	79.5	81.5	83.9	86.2							113.3
LOC SCHENECTADY	200	72.3	72.3	73.3	74.1	75.6	79.9	79.8	80.6	81.9	84.0	87.3							114.3
DATE 01-16-75	250	78.3	78.5	81.8	80.3	81.1	83.3	83.1	84.1	84.6	86.4	87.3							117.2
RUN 75-23	315	77.3	77.8	77.8	78.4	78.6	81.1	80.1	80.8	81.9	83.9	85.5							114.8
TAPE X80833	400	75.4	76.2	76.3	77.3	78.8	80.8	80.8	80.8	81.5	83.6	84.4							114.1
BAR 30.1 HG	500	74.1	75.1	75.4	76.9	77.7	81.4	81.4	82.2	83.2	84.8	83.6							114.7
(101.1. K/M2)	630	76.8	76.3	78.1	79.3	81.1	83.8	83.8	84.4	84.6	85.2	83.5							116.9
TAMB 40. DEG F	800	76.8	77.3	78.1	79.1	79.6	83.1	83.1	83.7	84.2	84.8	82.5							115.9
(278. DEG K)	1000	74.7	75.8	75.8	78.6	80.1	83.6	83.8	84.4	84.9	83.9	82.8							116.1
TWET 33. DEG F	1250	74.1	74.6	76.6	78.7	80.1	83.6	83.6	83.7	85.8	84.3	81.6							116.8
(274. DEG K)	1600	74.2	74.7	76.8	78.1	79.3	82.7	82.9	83.1	83.1	82.2	79.9							115.0
HACT 2.93 GM/M3	2000	75.1	77.6	80.6	80.4	81.9	86.1	89.3	90.9	90.2	86.1	82.3							120.6
(.00293 KG/M3)	2500	77.3	77.9	80.6	83.2	84.6	87.8	88.7	90.2	92.2	86.3	81.7							121.2
NFA 7770. RPM	3150	78.1	79.4	82.4	85.7	87.9	91.3	91.5	91.7	94.0	88.2	83.5							123.9
(814. RAD/SEC)	4000	83.4	83.2	87.4	91.8	92.5	93.6	95.8	97.5	96.8	92.0	88.0							127.7
NFK 7916. RPM	5000	78.2	79.3	81.2	84.3	86.7	90.6	92.1	92.8	91.4	88.4	82.0							122.8
(829. RAD/SEC)	6300	74.7	76.8	80.8	82.8	84.7	90.6	91.8	92.8	91.8	86.6	80.9							122.5
NFD 8023. RPM	8000	74.8	76.8	80.8	82.5	85.2	90.2	90.9	92.7	93.4	87.0	81.7							123.1
(924. RAD/SEC)	10000	74.3	76.6	80.3	83.8	85.3	89.5	91.5	92.7	93.1	87.3	81.4							123.2
NO. OF BLADES 15	12500	74.1	76.3	80.0	82.4	85.1	88.9	92.4	93.8	94.8	88.4	81.2							124.0
FAN TIP SPEED	16000	72.2	75.2	78.9	81.1	83.6	87.8	89.8	92.6	92.8	86.3	80.3							122.8
670. FT/SEC	20000	72.4	75.6	80.2	81.1	84.2	89.6	90.9	93.6	94.8	88.8	81.2							124.3
	25000	71.5	74.7	78.6	80.3	83.9	88.8	90.9	93.7	94.8	90.1	81.3							123.4
	31500	73.2	74.7	77.8	80.3	82.8	87.8	89.4	92.4	92.8	87.3	79.8							124.7
	40000	68.8	71.9	74.9	77.6	80.3	85.2	87.9	89.1	89.5	85.4	74.8							123.4
	50000	63.6	66.1	67.6	70.1	73.2	77.9	82.7	81.5	82.2	78.0	67.5							117.9
	63000	59.5	59.8	58.5	60.8	62.8	66.8	78.3	71.8	71.8	67.5	58.7							109.9
	80000	65.7	64.1	63.9	62.8	62.6	64.8	64.8	63.3	62.1	62.2	62.5							118.7
OVERALL MEASURED																			
OVERALL CALCULATED		90.3	91.3	94.8	96.6	98.2	101.7	103.3	104.8	105.1	101.8	98.2							126.6
	PNDB	104.4	104.8	108.9	111.2	112.8	114.7	116.1	117.4	117.4	113.7	110.6							

PAGE 8 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DIV) PROC. DATE - MONTH 09 DAY 3 HR. 0.0

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	93. (0.92)	99. (1.04)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	143. (2.50)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
	50																		
	63																		
SIDELINE 250. FT.	80	49.3	46.5	47.2	54.3	59.2	56.5	53.8	53.8	54.4	55.4	55.3							
(68.25 M)	100	43.7	47.7	49.7	58.1	56.7	53.8	51.8	58.5	53.8	54.1	59.9							
VEHICLE 2-55	125	52.7	54.7	54.9	53.8	54.2	55.8	55.3	55.9	55.8	56.2	55.8							
CONFIG 75-65	160	48.5	51.3	52.8	52.9	52.8	54.6	55.4	56.3	56.9	57.8	55.8							
LOC SCHENECTADY	200	48.2	49.3	51.8	52.2	53.8	57.9	56.4	57.3	57.1	58.8	54.6							
DATE 31-10-75	250	53.9	55.5	56.4	58.3	59.2	61.3	62.8	60.7	59.8	59.3	56.4							
RUN 75-23	315	53.1	54.6	55.4	56.3	58.6	59.8	57.5	57.3	56.9	56.7	54.5							
TAPE X09033	400	51.1	52.9	53.7	55.1	56.9	57.8	57.3	57.1	56.4	56.9	53.1							
BAR 30.1 HG	500	49.7	51.7	52.7	54.7	55.5	59.1	58.6	58.9	58.6	56.4	52.8							
(81.11. M/S2)	630	51.5	52.8	55.3	57.0	58.8	61.4	63.9	60.5	59.3	57.4	51.7							
TAMB 48. DEG F	800	52.1	53.7	55.2	56.4	57.3	60.6	60.8	59.7	58.6	56.8	50.4							
(278. DEG K)	1000	49.9	52.8	53.8	56.8	57.6	60.9	60.6	60.2	59.2	55.8	49.5							
TMET 33. DEG F	1250	49.1	50.7	53.5	55.9	57.5	60.8	60.3	59.4	9.1	55.9	48.7							
(274. DEG K)	1600	49.3	50.6	53.4	55.2	56.5	59.8	59.4	58.6	57.8	53.5	48.4							
WACT 2.93 G-M/M3	2000	52.6	53.3	57.1	57.3	58.9	62.9	65.6	64.2	63.9	57.6	49.3							
(3.03 KG/M3)	2500	51.6	53.3	56.9	59.9	61.5	64.5	64.9	63.2	63.8	57.6	47.5							
NFA 7778. RPM	3150	52.1	54.6	58.4	62.2	64.5	67.7	67.4	64.5	67.8	58.3	48.6							
(814. RAD/SEC)	4000	55.9	57.9	63.8	67.8	68.6	69.6	71.2	71.8	69.3	61.4	52.8							
NFK 7018. RPM	5040	49.3	52.7	59.5	63.1	62.7	66.3	67.2	68.8	63.5	55.7	45.4							
(829. RAD/SEC)	6300	45.9	50.5	56.6	57.9	60.8	65.7	66.2	65.1	62.1	54.3	42.5							
WFB 8823. RPM	8000	45.5	48.8	53.4	56.3	58.3	64.1	64.1	64.5	63.0	53.7	40.3							
(924. RAD/SEC)	10080	43.2	47.3	52.1	55.4	58.1	61.9	63.1	62.7	60.6	50.4	36.2							
NO. OF BLADES (9	12500	48.2	46.2	49.5	52.6	55.6	59.8	61.6	61.2	58.4	47.9	38.2							
FAN TIP SPEED	16000	33.6	39.2	44.6	47.7	50.4	54.3	55.1	55.7	52.1	38.8	29.8							
870. FT/SEC	20000	27.8	34.2	40.8	42.9	46.3	51.3	51.1	51.1	46.7	33.1	8.4							
	25000	18.2	25.5	32.8	35.2	38.2	43.5	45.8	45.1	38.8	22.2								
	31500	4.1	14.1	28.7	29.3	28.3	32.5	31.6	29.9	22.1	1.7								
	40000			2.1	7.4	11.0	14.8	14.2	8.9										
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		64.6	64.3	69.3	73.2	73.7	76.5	77.1	77.8	73.5	70.1	66.0							
	PWDB	70.1	70.7	83.7	87.4	88.6	90.8	91.9	91.8	90.8	83.9	73.9							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY) PROC. DATE - MONTH 10 DAY 8 HR 0 6

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		93.	82.	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.	PNL
	FREQ.	(0.92)	(1.30)	(1.24)	(1.41)	(1.58)	(1.76)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.	)(0.	)(0.	)(0.	)(0.	)(0.	)	
	50																			
	63																			
RADIAL 17. FT.	80	62.1	56.9	61.2	65.7	66.5	67.2	63.5	61.8	65.2	67.3	66.2								98.8
(5. M)	100	52.2	55.3	59.5	59.8	59.3	60.3	57.8	54.8	59.8	63.1	65.2								93.7
VEHICLE a-55	125	56.7	58.3	63.6	58.1	59.8	59.1	57.6	61.3	61.3	62.9	64.5								94.3
CONFIG 75-83	160	55.2	56.2	56.3	58.3	58.5	58.3	58.3	59.8	61.8	63.4	64.7								93.3
LOC SCHENECTADY	200	56.7	55.6	54.6	55.9	56.6	60.1	60.1	61.4	62.1	64.7	65.8								94.4
DATE 11-10-75	250	57.2	56.8	59.3	59.1	59.8	61.8	61.3	62.1	62.8	63.9	64.5								95.3
RUN 75-24	315	59.5	57.6	59.8	60.4	60.1	62.6	61.3	61.1	62.4	62.9	63.3								95.3
TAPE VE9833	400	56.7	58.2	57.8	58.8	59.5	61.8	61.2	61.8	62.3	63.4	63.7								94.9
BAR 30.1 HG	500	58.1	57.1	57.7	58.7	59.9	62.9	63.4	63.9	64.9	65.5	63.8								96.3
(81711. N/M2)	630	58.5	58.3	60.3	62.1	63.1	66.3	66.5	66.9	67.1	67.9	64.5								98.9
TAMB 60. DEG F	800	58.5	59.1	60.1	61.1	62.4	65.8	65.-	66.4	67.2	67.5	63.9								98.9
(278. DEG K)	1000	57.5	58.5	59.8	62.3	63.1	67.1	67.3	68.1	69.4	69.2	64.8								100.0
THET 33. DEG F	1250	58.8	59.9	61.4	64.4	66.4	69.1	70.1	71.9	74.8	73.5	68.4								103.5
(274. DEG K)	1600	58.4	57.2	58.5	60.6	62.5	65.5	66.2	66.8	67.4	67.2	62.9								98.5
HACT 2.38 GM/M3	2000	54.8	56.1	57.6	59.9	61.1	64.1	64.1	65.4	67.8	67.4	61.5								97.5
(.0023 KG/M3)	2500	60.6	61.9	64.8	67.2	68.9	72.8	74.2	76.2	78.7	76.3	69.5								107.0
NFA 5437. RPM	3150	58.9	61.4	63.4	66.2	68.7	72.8	73.5	75.8	77.8	75.9	68.8								106.5
(569. RAD/SEC)	4000	59.7	62.5	64.4	67.8	69.2	72.8	74.6	76.8	78.8	76.9	68.8								107.6
NPR 9539. RPM	5000	57.8	59.5	60.7	63.6	64.2	65.8	71.8	73.8	73.6	71.9	64.3								103.6
(998. RAD/SEC)	6300	55.7	57.1	56.8	61.8	64.5	69.6	72.6	71.3	73.5	71.4	64.7								102.9
NFD 8023. RPM	8000	56.1	56.9	58.5	61.5	64.2	68.9	69.8	72.5	73.2	71.4	64.2								102.9
(924. RAD/SEC)	10000	56.3	56.4	58.3	61.2	63.9	68.8	70.5	71.2	73.6	70.3	63.4								102.8
NO. OF BLADES 15	12500	53.8	55.2	56.0	61.4	64.1	67.4	69.4	72.3	73.8	70.8	63.2								102.8
FAN TIP SPEED	16000	53.2	55.4	57.2	59.9	62.3	66.3	68.6	72.1	72.8	69.2	62.3								102.0
476. FT/SEC	20000	52.9	56.4	57.2	59.6	62.4	67.9	68.9	71.9	74.0	71.1	62.2								103.7
	25000	53.3	55.9	56.5	58.5	62.1	67.8	68.6	72.5	72.1	70.1	60.8								103.1
	31500	52.5	53.9	55.1	58.2	60.8	65.8	67.1	69.7	71.3	67.8	59.8								102.9
	40000	52.3	53.2	52.9	55.3	58.5	62.9	64.9	66.9	68.5	65.4	55.3								101.4
	50000	51.1	51.0	49.6	50.1	52.4	56.4	58.7	59.3	60.7	58.7	50.0								98.0
	63000	49.5	49.0	48.2	46.7	46.8	48.6	49.5	49.5	50.3	48.8	47.2								91.1
	80000	55.7	56.1	53.9	52.8	52.6	54.8	54.8	53.8	52.1	52.2	52.5								100.7
OVERALL MEASURED																				
OVERALL CALCULATED		71.8	72.6	74.3	76.7	78.4	82.8	83.2	85.3	86.7	84.9	79.3								116.7
	PWOB	83.6	85.3	87.1	89.6	91.4	94.9	96.1	98.2	99.6	97.8	91.9								

all 10dB low

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE - MONTH 36 DAY 0 HR. 0.6

MODEL SOUND PRESSURE LEVELS (59. DEG. F, 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	63. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIDELINE 200. FT.	80	38.9	34.3	39.2	44.1	45.0	45.9	41.3	38.0	40.9	40.9	36.3						
(60.96 M)	100	28.5	32.2	37.4	38.1	37.7	38.5	34.8	31.7	35.4	36.6	35.2						
VEHICLE R-55	125	34.9	35.5	38.4	36.3	38.2	37.3	35.3	38.2	36.8	35.9	34.3						
CONFIG 75-60	160	31.3	33.3	34.0	34.4	34.8	36.4	35.9	35.8	36.4	36.9	34.3						
LOC SCHENECTADY	200	30.8	32.6	32.3	33.9	34.8	38.1	37.6	38.0	37.4	37.7	35.1						
DATE 01-16-75	250	33.2	35.0	36.9	37.1	38.0	39.8	38.8	38.7	37.8	36.8	33.7						
RUN 75-24	315	34.3	36.4	37.4	39.3	38.1	40.5	38.7	37.6	37.4	35.7	32.2						
TAPE X00033	400	32.4	34.7	35.2	36.6	37.5	39.5	38.5	38.1	37.2	36.2	32.4						
BAR 30.1 HG	500	31.7	33.7	35.0	36.4	37.8	40.6	40.6	40.2	39.7	37.9	32.0						
(101711. N/M2)	630	34.0	35.3	37.5	39.7	40.8	43.9	43.6	43.0	41.8	39.4	32.7						
TAMB 40. DEG F	800	33.9	35.5	37.2	38.6	40.0	43.1	42.8	42.4	41.6	39.5	31.4						
(278. DEG K)	1000	32.7	35.0	36.8	39.7	40.6	44.4	44.1	44.0	43.7	41.0	31.5						
TWET 33. DEG F	1250	34.8	35.9	39.2	41.7	43.8	46.3	46.8	47.6	48.1	45.1	35.2						
(274. DEG K)	1600	31.2	33.1	35.2	37.7	39.7	42.5	42.7	42.3	41.2	38.5	29.6						
HACT 2.93 GM/M3	2000	29.4	31.9	34.1	36.8	38.2	40.9	40.4	40.7	40.6	38.9	27.8						
(.00293 KG/M3)	2500	34.9	37.3	41.1	43.9	45.7	48.7	50.4	53.2	52.1	47.0	35.3						
NFA 5437. RPM	3150	33.9	36.6	39.4	42.7	45.3	49.2	49.4	49.7	50.0	46.1	33.8						
(569. RAD/SEC)	4000	33.1	37.2	40.0	43.8	45.4	48.8	49.9	51.0	51.3	45.4	32.0						
NFK 9539. RPM	5000	30.1	32.4	36.0	39.4	42.2	45.6	46.9	47.0	45.7	40.5	27.6						
(980. RAD/SEC)	6300	27.9	30.7	33.6	36.9	39.7	44.4	44.9	44.4	44.6	39.1	26.2						
NFD 8823. RPM	8000	25.8	29.2	31.9	35.5	38.3	42.8	42.8	44.3	42.8	37.6	23.8						
(924. RAD/SEC)	10000	23.2	27.0	30.1	33.7	36.6	41.2	42.2	41.2	41.1	35.4	18.2						
NO. OF BLADES 15	12500	19.7	23.9	27.9	31.6	34.6	37.5	38.6	39.7	37.4	30.0	12.2						
FAN TIP SPEED	16000	14.6	19.4	22.8	26.4	29.2	32.8	33.9	35.2	32.1	22.2	2.0						
475. FT/SEC	20000	8.3	13.9	17.8	21.4	24.6	29.5	29.1	29.3	26.7	15.3							
	25000		5.8	9.3	13.4	17.5	21.8	21.5	19.8	15.3	2.2							
	31500				3.1	6.3	10.5	9.3	7.1	0.6								
	40000																	
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		46.4	47.9	50.5	53.1	54.7	57.7	58.0	58.9	58.5	54.5	46.2						
PNDB		56.8	59.5	62.4	65.6	67.4	71.0	71.4	72.7	72.0	67.5	56.8						

all 10dB low

PAGE 1 FULL SCALE DATA [illegible]

PROC. DATE = MONTH 3 DAY 27 HR. 13.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	53																		
RADIAL 17. FT.	56																		
(5.5 M)	100	75.2	76.7	80.4	83.7	81.3	81.4	77.8	72.0	70.7	75.5	77.4							113.3
VEHICLE R-55	125	85.5	87.9	90.7	93.8	92.0	88.6	87.8	91.2	91.9	92.5	95.4							104.6
CONFIG 75-7	160	85.5	86.4	86.4	86.5	85.5	85.6	88.0	90.2	91.5	93.5	95.7							103.6
LOC SCHENECTADY	200	84.5	84.4	85.1	86.2	87.5	86.4	89.8	92.0	93.2	95.0	96.6							104.8
DATE 1/2275	250	87.4	88.4	89.6	92.2	92.0	91.4	92.8	93.5	93.2	94.2	95.6							105.9
RUN 64/2	315	88.5	88.4	89.5	92.2	92.3	91.1	91.8	92.2	92.4	94.0	94.9							105.6
TAPE	400	87.0	86.9	87.9	88.7	88.5	90.1	90.5	92.0	92.2	93.3	94.1							104.6
BAR 30.1 HG	500	85.0	85.7	86.1	87.0	89.1	89.7	91.0	92.2	92.9	93.8	93.4							104.4
(101584. N/M2)	630	87.1	87.7	89.2	90.7	92.3	93.7	95.5	96.8	96.2	96.3	94.9							107.8
TAMB 45. DEG F	800	87.8	88.4	89.9	91.0	91.3	93.7	95.3	95.7	94.9	97.3	94.2							107.9
(280. DEG K)	1000	84.8	85.2	87.9	89.5	91.1	93.4	94.7	96.2	96.9	97.5	92.6							107.7
TDEW 40. DEG F	1250	87.6	88.5	91.1	92.5	93.5	95.5	97.5	98.7	98.9	98.3	96.2							111.5
(278. DEG K)	1600	84.3	85.7	87.4	88.8	89.6	91.5	93.2	95.3	94.2	94.1	91.7							106.1
HACT 5.05 GM/M3	2000	81.9	84.0	84.4	85.9	86.4	88.2	89.7	90.2	91.2	91.8	89.2							102.5
(.00505 KG/M3)	2500	82.6	84.3	84.6	85.7	88.2	90.5	90.2	89.9	91.5	91.8	88.4							103.1
NFA 5477. RPM	3150	80.3	81.8	82.4	84.4	86.4	89.0	89.9	91.4	91.7	92.1	87.4							102.6
(573. RAD/SEC)	4000	81.3	83.2	84.1	86.7	89.7	91.7	93.1	94.1	93.1	93.5	90.6							106.8
NFF 5552. RPM	5000	83.8	82.5	83.5	85.1	88.1	91.7	95.1	97.8	97.8	96.7	92.5							107.6
(581. RAD/SEC)	6300	83.3	84.3	85.5	87.5	90.5	94.4	98.8	100.6	101.4	98.4	92.6							110.3
NFD 8823. RPM	8000	87.0	85.2	86.3	89.3	92.0	95.3	98.4	100.8	102.5	100.9	94.2							111.8
(924. RAD/SEC)	10000	86.5	89.8	91.3	94.1	98.3	102.4	104.1	105.6	107.1	103.4	96.1							116.7
NO. OF BLADES 18	12500	87.8	91.3	92.4	94.9	99.0	103.6	105.2	106.7	107.8	102.9	97.3							117.9
FAN TIP SPEED	16000	93.3	94.8	96.4	98.9	103.7	108.5	111.3	113.7	115.1	110.4	104.3							124.8
478. FT/SEC	20000	92.1	93.9	95.3	98.5	104.0	107.4	110.5	113.6	115.3	110.9	103.0							124.7
	25000	90.5	92.5	94.0	96.4	101.9	105.8	107.7	110.4	112.1	107.7	100.3							122.6
	31500	89.6	91.2	93.1	95.8	101.5	104.5	106.7	109.7	110.3	106.3	98.2							122.4
	40000	84.5	89.3	91.1	93.2	98.0	102.0	104.3	105.5	106.9	103.3	95.3							118.3
	50000	82.4	89.0	91.5	92.9	96.5	97.9	100.3	99.8	101.6	99.1	89.6							107.6
	63000	81.3	89.3	91.0	89.9	89.7	90.1	90.9	89.3	89.4	88.7	83.3							105.0
	80000	83.9	86.1	91.3	89.9	89.7	90.1	90.2	89.3	89.1	88.7	86.9							108.2
OVERALL MEASURED																			
OVERALL CALCULATED		89.8	92.2	94.3	97.0	98.3	98.3	91.8	93.6	94.8	92.2	88.8							128.4
PNLA		89.0	90.4	91.6	94.2	95.7	95.5	100.0	101.9	102.7	102.0	98.6							

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

FREE. DATE = MONTH 3 DAY 27 HR. 13.7

TOTAL SCRUB PRESSURE LEVELS (FR. SEA. FL. TO PASCENT BLL. NUM. DAY)

ANGLES FROM INLET TO DEGREES (AND RADIANS)

	FREQ.	33. (0.58)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0.	0.	0.	0.	0.	0.	0.
	CY																		
SIDELINE 200. FT.	30																		
(60.96 M)	100	51.5	54.0	53.3	51.3	50.2	49.7	50.4	48.9	46.3	49.0	47.3							
VEHICLE F-85	125	41.7	45.1	48.5	48.9	50.4	48.8	48.5	48.1	48.7	48.8	48.2							
CONFIG 25-7	150	41.6	43.5	44.2	44.4	44.5	45.8	45.7	47.0	46.8	46.7	45.2							
LOC SC-ENGECTADY	200	40.5	41.4	43.1	44.3	45.7	47.4	47.3	48.7	48.4	48.0	46.0							
DATE 1/2375	250	43.4	45.3	47.2	48.2	48.1	49.3	49.5	50.1	48.3	47.1	44.8							
RUN 64/2	315	44.3	46.3	47.1	48.1	48.3	49.0	49.1	48.7	47.5	46.8	43.8							
TAPE	400	42.7	43.7	45.3	46.5	46.7	47.9	47.8	48.4	47.1	45.8	42.8							
BAR 30.1 HG	500	40.6	42.7	43.5	44.7	45.9	47.4	48.2	48.5	47.7	46.2	41.8							
(1015.4 N/M2)	630	42.5	41.2	46.4	48.4	50.1	51.3	52.6	52.1	50.8	48.5	43.1							
TAMB 45. DEG F	800	43.1	44.8	46.0	48.5	49.9	51.2	52.2	51.7	51.4	49.3	42.0							
(280. DEG K)	1000	43.0	42.2	44.9	46.9	48.6	50.8	51.6	52.1	51.2	49.3	40.2							
TRT 40. DEG F	1250	42.5	45.5	48.0	50.8	51.0	52.7	54.2	54.4	55.1	53.9	43.3							
(278. DEG K)	1600	39.1	41.6	44.0	45.9	45.9	48.5	49.7	50.5	48.1	47.3	38.4							
WACT 5.05 GM/M3	2000	36.4	39.7	40.8	42.8	43.5	45.1	46.8	45.5	44.8	42.9	35.4							
(.0035 KG/M3)	2500	34.9	39.0	40.9	43.4	45.0	47.2	46.3	45.0	44.9	42.5	34.2							
NFA 5477. RPM	3150	34.3	34.9	38.3	42.9	43.0	45.4	45.9	45.2	44.7	42.2	32.5							
(573. RAD/SEC)	4000	35.0	37.9	39.6	42.7	46.3	47.7	48.5	49.3	49.6	46.9	34.6							
NFK 5552. RPM	5000	33.3	36.9	38.8	40.9	44.1	47.4	50.2	51.7	49.7	45.7	33.9							
(581. RAD/SEC)	6300	35.6	37.9	40.0	42.4	45.8	49.4	51.2	53.7	52.4	44.2	34.1							
NFC 8821. RPM	8000	33.8	37.6	39.7	43.3	46.1	49.2	51.6	52.7	52.1	46.7	32.9							
(924. RAD/SEC)	10000	35.7	40.5	43.1	44.6	50.9	54.8	55.7	55.6	54.6	46.5	35.9							
NO. OF BLADES 18	12500	33.9	39.4	41.9	49.1	52.4	53.7	54.4	54.1	52.2	42.0	26.4							
FAN TIP SPEED	16000	24.8	29.8	32.5	38.4	42.5	45.0	46.4	46.8	44.4	33.1	13.9							
478. FT/SEC	20000	17.5	22.4	25.9	33.3	36.1	39.1	40.7	41.0	37.9	24.2	0.3							
	25000	7.2	13.3	17.4	24.3	27.2	30.5	30.6	29.8	25.3	9.8								
	31500		0.6	6.0	13.8	16.9	20.2	18.9	17.2	9.5									
	40000						1.6	0.5											
	50000																		
	63000																		
	80000																		
OVERALL CALCULATED		55.7	57.9	61.0	63.4	63.8	64.7	64.6	64.6	63.6	60.9	55.4							
PNDB		62.7	65.3	67.2	69.7	71.5	73.7	74.7	75.9	74.7	71.7	62.2							

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 27 HR. 13.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	72.7	75.4	73.7	69.9	69.1	69.4	70.5	71.7	73.0	76.3	79.9							107.5
VEHICLE R-55	125	68.2	70.7	72.4	70.4	72.4	71.2	71.3	74.2	74.7	74.3	79.2							107.4
CONFIG 75-7	160	68.5	69.7	69.2	69.9	70.1	70.4	71.8	74.0	75.2	77.5	79.9							107.4
LOC SCHENECTADY	200	67.0	67.4	68.6	69.9	71.1	73.4	73.8	76.0	76.9	79.3	81.6							109.0
DATE 1/22/75	250	71.2	71.7	72.6	72.9	73.4	74.1	75.3	76.2	76.7	78.0	79.9							109.2
RUN 64/3	315	72.1	72.9	73.4	73.2	73.9	74.2	74.5	75.7	76.2	77.8	79.1							109.1
TAPE	400	69.9	70.7	70.9	71.7	71.9	73.2	73.8	74.7	75.7	77.3	78.4							108.0
BAR 30.1 HG	500	68.0	68.9	69.6	70.7	71.1	73.2	74.8	75.7	75.9	77.3	77.4							107.9
(1594. N/M2)	630	70.3	70.4	71.9	73.7	74.7	76.2	77.8	79.0	79.0	79.3	77.9							110.5
TAMB 45. DEG F	800	72.6	72.9	73.6	73.7	74.1	74.2	77.0	78.2	79.2	79.3	76.4							110.3
(280. DEG K)	1000	67.8	69.2	70.4	71.7	73.4	76.0	77.5	78.7	80.2	79.5	75.7							110.3
TACT 39. DEG F	1250	67.9	68.5	69.9	71.3	72.7	74.7	76.7	78.2	79.2	79.5	75.4							109.7
(277. DEG K)	1600	67.8	68.5	69.9	72.0	74.5	76.7	77.2	78.0	79.2	80.1	74.9							110.2
HACT 4.51 GM/M3	2000	65.9	66.5	67.6	69.1	70.0	72.0	72.5	73.5	74.0	74.1	71.7							105.5
(.00451 KG/M3)	2500	66.4	67.3	68.1	69.9	71.5	73.0	73.0	73.0	73.5	73.1	71.2							105.7
NFA 6254. RPM	3150	64.4	64.8	66.1	68.4	70.5	73.5	73.9	74.4	77.2	74.9	71.1							106.8
(655. RAD/SEC)	4000	64.3	66.0	67.1	69.6	71.8	74.2	76.6	77.6	80.2	74.6	72.6							109.1
NFR 6342. RPM	5000	64.3	65.7	67.3	69.1	72.2	74.9	80.1	81.3	82.1	77.8	73.5							111.3
(664. RAD/SEC)	6300	65.6	67.3	69.5	71.3	73.4	77.7	80.8	82.9	84.1	80.7	74.9							113.1
NFD 8523. RPM	8000	66.3	68.0	69.8	72.3	75.1	78.6	81.7	84.9	85.3	82.7	76.2							114.7
(924. RAD/SEC)	10000	66.4	68.4	70.4	74.9	76.9	80.7	83.9	86.4	86.9	82.0	76.9							116.3
NO. OF BLADES 15	12500	69.9	71.1	74.0	78.8	82.1	85.4	87.8	90.7	91.6	84.4	79.2							120.8
FAN TIP SPEED	16000	66.2	68.1	71.2	76.4	85.1	83.1	85.2	87.8	87.9	82.5	77.1							118.2
546. FT/SEC	20000	55.8	67.3	69.9	75.4	78.0	81.8	84.9	87.7	88.8	82.8	76.7							118.0
	25000	54.0	65.5	68.3	74.1	76.5	80.1	82.5	84.9	85..	81.0	74.1							116.7
	31500	62.4	64.7	67.1	73.4	75.1	79.3	81.2	84.0	84.0	79.1	71.7							116.4
	40000	60.2	62.2	64.5	70.3	73.0	76.2	78.2	80.4	80.8	75.9	68.5							114.5
	50000	60.5	60.0	62.4	67.2	69.8	72.4	74.0	74.6	75.1	71.6	61.6							111.5
	63000	61.3	58.3	60.8	66.0	66.2	67.9	67.0	66.7	67.8	65.0	57.7							108.5
	80000	64.2	67.2	61.4	67.4	67.4	68.5	61.4	60.7	61.0	59.7	57.4							111.9
OVERALL MEASURED																			
OVERALL CALCULATED		82.5	83.8	84.8	87.3	89.4	92.2	94.5	96.9	97.6	93.9	91.4							120.1
	PNDB	91.7	93.0	94.2	95.9	97.7	100.5	102.8	104.4	105.5	103.6	100.2							

FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE - MONTH 3 DAY 27 HR. 13.7

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE B-65
CONFIG 75-7
LOC SCHENECTADY
DATE 1/22/75
RUN 64/3
TAPE
BAR 30.1 IN (01384. N/M2)
TAMB 45. DEG F (280. DEG K)
TDET 39. DEG F (277. DEG K)
HACT 4.51 GM/M3 (.00451 KG/M3)
NFA 6256. RPM (655. RAD/SEC)
NFK 6342. RPM (664. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 546. FT/SEC

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	64. (1.12)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.0	52.7	51.6	48.2	47.5	47.7	48.3	48.7	48.5	49.7	49.6						
125	44.5	47.9	50.2	48.6	50.7	49.3	49.0	51.1	50.2	49.6	48.9						
160	44.6	46.8	46.9	48.1	48.4	48.5	49.4	50.8	50.6	50.7	49.4						
200	43.0	44.4	46.3	48.0	49.3	51.4	51.3	52.7	52.2	52.3	51.0						
250	47.1	48.6	50.2	50.9	51.5	52.1	52.7	52.8	51.6	50.9	49.0						
315	47.5	49.8	51.1	51.1	51.9	52.0	51.9	52.2	51.2	50.5	48.1						
400	45.5	47.4	48.3	49.5	49.8	50.9	51.0	51.1	50.6	49.8	47.1						
500	43.6	45.6	47.0	48.4	49.0	50.9	51.9	52.0	50.7	49.7	45.8						
630	45.8	47.0	49.1	51.3	52.4	53.8	54.8	55.1	53.6	51.5	46.1						
800	45.9	47.3	48.7	51.2	51.8	53.7	54.2	54.2	53.7	51.3	44.3						
1000	43.0	45.4	47.4	49.1	50.9	53.3	54.3	54.6	54.5	51.3	43.2						
1250	42.8	44.6	46.7	48.5	50.1	51.9	53.4	53.9	53.3	51.1	42.6						
1600	42.6	44.4	46.5	49.1	51.7	53.8	53.7	53.5	53.1	51.3	41.7						
2000	40.4	42.2	44.1	46.0	47.0	48.9	48.8	48.8	47.8	45.0	37.9						
2500	39.7	42.5	44.4	46.6	48.4	49.7	49.1	48.0	46.9	43.7	37.0						
3150	38.3	40.0	42.1	44.9	47.1	49.9	49.8	49.2	50.2	45.0	36.2						
4000	37.8	40.7	42.6	45.7	48.0	50.2	52.0	51.9	52.6	46.0	36.6						
5000	37.4	40.2	42.6	46.9	48.2	50.7	55.2	55.3	54.2	46.8	36.9						
6300	37.9	40.9	44.0	48.4	48.6	52.7	55.0	56.0	55.2	48.5	36.4						
8000	37.1	40.4	43.2	46.3	49.3	52.6	54.8	56.7	54.9	48.5	34.9						
10000	35.3	39.0	42.2	47.3	49.6	53.1	55.5	56.4	54.4	45.1	31.7						
12500	36.9	39.2	43.5	49.2	52.6	55.6	57.0	58.2	56.0	43.6	28.2						
16000	27.7	32.1	36.8	43.0	47.0	49.6	50.5	50.7	47.3	35.2	16.8						
20000	21.1	25.8	30.5	37.1	40.1	43.5	45.1	45.1	41.3	27.0	3.9						
25000	15.7	16.3	21.7	29.0	31.5	34.8	35.3	34.3	29.1	13.1							
31500		4.1	10.0	18.3	21.5	23.9	23.4	21.4	13.3								
40000				0.1	3.7	5.8	4.4	0.3									
50000																	
63000																	
80000																	
OVERALL CALCULATED	57.2	59.5	60.8	62.1	63.6	65.5	66.7	67.3	66.2	62.9	58.9						
PNDB	65.5	68.0	70.0	72.1	74.0	75.3	76.2	76.5	77.6	72.9	69.0						

FACE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 HR. 13.8

FULL SCALE NOISE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	67.0	71.9	72.9	71.4	78.6	71.7	71.6	72.4	75.7	80.3	84.1							109.6
VEHICLE RPEG	125	72.3	73.6	73.6	73.2	75.4	75.4	74.6	77.4	78.2	80.6	83.6							112.2
CONFIG 75-7	160	72.3	72.6	72.9	73.4	73.6	73.9	75.6	76.9	79.0	81.3	84.1							111.2
LOC SCHENECTADY	200	71.0	71.1	71.9	73.2	74.1	76.4	77.4	78.9	80.2	83.3	85.1							112.4
DATE 1/2275	250	74.3	75.1	76.1	76.4	76.9	77.1	78.8	79.6	80.7	82.9	84.3							113.1
RUN 6474	315	75.8	75.9	75.6	74.7	77.1	77.7	78.3	78.6	79.7	82.1	83.3							112.7
TAPE	400	73.6	74.1	74.1	74.9	75.1	76.4	77.4	78.4	79.5	81.6	82.3							111.7
BAR 30.1 HG	500	71.3	71.9	71.9	73.7	74.1	76.2	77.6	78.7	79.7	81.6	81.6							111.4
(01594. N/M2)	630	73.1	73.1	74.6	75.9	77.2	77.2	80.9	81.2	81.7	82.8	81.4							113.4
TAMB 44. DEG F	800	73.6	74.1	74.9	74.2	77.4	79.7	80.6	81.4	82.0	82.3	80.9							113.4
(280. DEG K)	1000	71.4	72.4	73.4	75.2	76.1	78.4	80.1	80.9	82.0	82.1	79.6							112.8
TWET 39. DEG F	1250	71.2	71.7	72.6	74.5	75.2	77.7	79.1	80.4	81.7	81.6	79.4							112.2
(277. DEG K)	1600	72.2	71.4	72.4	74.3	74.7	76.7	77.8	77.9	79.5	79.4	77.4							110.4
HACT 4.81 GM/M3	2000	69.2	70.2	71.4	73.3	74.0	76.0	76.6	76.9	78.0	77.9	75.6							109.4
(.00481 KG/M3)	2500	69.4	70.5	71.4	73.5	75.3	76.8	76.3	76.1	77.2	76.9	75.3							109.3
NFA 2939. RPM	3150	67.4	69.2	69.9	71.9	74.2	76.5	78.0	77.3	80.0	76.7	74.3							109.9
(737. RAD/SEC)	4000	68.1	69.9	70.8	73.6	75.3	78.9	80.7	80.5	83.9	79.9	75.5							112.7
NFK 7143. RPM	5000	67.3	69.2	70.3	72.9	75.3	79.4	82.4	84.4	83.6	80.3	76.0							114.0
(748. RAD/SEC)	6300	68.9	70.2	71.7	74.5	76.4	80.7	82.9	85.0	86.4	82.3	77.5							115.4
NFD 6823. RPM	8000	69.3	71.2	72.3	75.7	78.1	82.1	85.5	87.2	88.8	84.5	78.6							117.7
(924. RAD/SEC)	10000	69.9	71.3	73.6	76.6	79.5	84.2	87.2	88.3	89.1	83.5	78.3							118.8
NO. OF BLADES 15	12500	70.4	72.3	74.2	78.4	81.8	85.1	87.4	90.6	91.1	85.1	79.6							120.5
FAN TIP SPEED	16000	69.2	70.7	74.3	79.3	82.3	85.8	87.4	90.2	90.1	84.2	79.0							120.5
615. FT/SEC	20000	68.5	69.9	73.3	78.0	81.9	85.0	87.7	90.8	90.8	85.0	78.8							121.3
	25000	68.3	69.2	72.3	77.3	80.7	83.8	86.3	88.3	89.7	84.5	77.3							120.4
	31500	66.9	68.4	71.8	76.9	80.3	83.5	85.3	87.1	87.5	82.9	74.9							120.0
	40000	65.8	66.4	69.6	73.8	77.5	80.0	82.3	83.6	84.1	79.8	70.2							116.1
	50000	67.0	66.1	67.5	69.8	73.7	76.0	78.7	78.8	79.0	76.0	65.9							115.6
	63000	68.8	65.5	67.5	66.4	68.4	70.6	72.0	71.3	72.0	69.7	64.0							112.6
	80000	72.1	68.4	70.7	67.7	67.7	66.8	68.8	67.9	67.1	67.2	65.8							115.6
OVERALL MEASURED																			
OVERALL CALCULATED		85.6	86.3	88.1	90.9	92.1	95.0	97.1	99.0	99.7	96.6	94.9							120.7
	PWDN	95.1	96.3	97.6	99.5	100.9	103.6	105.7	107.0	108.1	106.0	103.4							

ORIGINAL PAGE IS OF POOR QUALITY

FULL SCALE DATA PROJECTION PROGRAM

FREQ. DATE - MONTH 3 DAY 27 HR. 13.0

MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	63. (1.10)	73. (1.27)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	121. (2.11)	133. (2.32)	143. (2.50)	153. (2.67)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	47.4	49.2	50.8	49.7	47.0	49.1	49.4	49.3	51.3	53.8	54.0						
125	49.0	55.8	57.5	56.4	53.7	53.6	52.3	54.3	53.7	54.2	53.4						
160	48.4	49.7	50.7	51.6	51.9	52.0	53.2	53.7	54.3	54.5	53.6						
200	47.1	48.1	49.6	51.2	52.3	54.4	54.9	55.6	55.5	54.4	54.4						
250	50.2	52.0	53.7	54.4	55.3	55.1	56.3	56.2	55.8	55.7	53.5						
315	51.6	52.7	54.1	54.5	55.2	55.5	55.7	55.1	54.7	54.6	52.3						
400	49.3	50.3	51.5	52.7	53.1	54.2	54.6	54.8	54.4	54.2	51.0						
500	48.2	48.5	49.2	51.4	52.2	53.4	54.8	54.9	54.5	54.0	50.0						
630	48.6	49.7	51.9	53.6	54.9	56.9	57.9	57.3	56.4	55.1	49.5						
800	48.9	50.5	52.0	53.7	55.0	57.2	57.5	57.4	56.4	54.4	48.7						
1000	46.6	48.6	50.7	52.4	53.7	55.8	56.9	56.9	56.3	53.9	47.1						
1250	46.2	47.7	49.5	51.3	52.5	54.2	55.8	56.1	55.4	53.2	46.5						
1600	44.2	47.3	49.0	51.4	51.9	53.8	54.3	53.4	52.4	50.7	44.1						
2000	43.7	45.9	47.8	50.2	51.3	52.9	52.9	52.2	51.8	48.8	41.9						
2500	43.8	46.0	47.7	50.3	51.9	53.4	52.4	51.2	50.6	47.5	41.2						
3150	41.4	44.2	45.8	48.3	50.5	52.2	53.8	52.1	51.0	46.9	39.4						
4000	41.6	43.7	46.3	49.7	51.7	54.1	56.1	54.8	54.3	49.3	39.5						
5000	41.0	43.6	45.5	48.6	50.9	55.2	57.5	58.4	55.7	49.3	39.3						
6300	41.2	43.9	46.3	49.5	51.6	55.7	57.3	58.1	57.5	50.0	39.1						
8000	42.2	43.6	45.7	49.7	52.2	56.0	58.7	59.1	58.3	50.3	37.4						
10000	37.5	41.9	45.4	49.3	52.3	56.6	58.8	58.3	56.6	46.9	33.1						
12500	36.5	40.1	43.7	48.6	52.3	55.3	56.6	58.0	55.5	44.3	28.6						
16000	30.7	34.7	40.0	45.9	49.1	52.3	52.8	53.3	49.5	36.9	18.6						
20000	23.9	28.4	33.9	39.8	44.3	45.6	47.8	48.2	43.5	29.3	6.8						
25000	15.0	20.0	25.7	32.2	36.1	38.6	39.2	37.7	32.8	16.7							
31500	8.8	7.8	14.7	21.9	25.7	28.1	27.5	24.6	16.8								
40000				3.7	8.2	9.6	8.6	3.5									
50000																	
63000																	
80000																	
OVERALL CALCULATED	60.0	62.5	64.1	65.3	66.3	68.4	69.5	69.5	68.8	66.2	62.9						
PNDB	69.0	71.4	73.2	75.7	77.3	79.6	81.1	81.3	80.6	75.8	68.7						

SIDELINE 200. FT. (60.96 M)
VEHICLE P=55
CONFIG 75=7
LOC SCHEDULE=A=Y
DATE 1/2275
RUN 64/4
TAPE
BAR 30.1 HG (101584. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
HACT 4.81 GM/M3 (.00481 KG/M3)
NFA 7033. RPM (737. RAD/SEC)
NFK 7143. RPM (748. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 19
FAN TIP SPEED 615. FT/SEC

PAGE 1 FULL SCALE DATA PREDICTION PROGRAM PROG. DATE = MONTH 3 DAY 27 HR. 13.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT. (5. MI)
VEHICLE Rees
CONFIG 75-7
LOC SCHENECTADY
DATE 1/2275
RUN 64/5
TAPE
BAR 30.1 HG (101584. N/M2)
TAMB 44. DEG F (280. DEG K)
TDCT 39. DEG F (277. DEG K)
HACT 4.81 GM/M3 (.00481 KG/M3)
NFA 7820. RPM (819. RAD/SEC)
NFK 7936. RPM (831. RAD/SEC)
NFC 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 683. FT/SEC

FREQ.	53. (0.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PWL
50																		
63																		
80																		
100	68.0	71.6	72.4	72.2	72.9	74.2	74.1	75.4	78.7	83.8	87.6							112.5
125	74.8	77.4	77.1	75.7	76.4	77.2	78.1	80.2	81.0	83.8	87.1							114.0
160	74.8	75.9	75.4	75.0	75.6	75.9	78.4	80.2	82.2	85.1	87.9							114.4
200	73.8	73.6	74.4	75.4	77.1	80.1	80.1	81.9	83.5	86.1	88.3							115.5
250	79.0	79.4	81.4	81.6	82.1	83.6	84.3	86.1	86.2	88.1	88.6							118.5
315	78.8	78.9	79.4	80.2	79.6	81.2	81.6	82.6	83.7	85.6	87.1							116.2
400	76.8	77.1	77.1	78.2	78.7	79.7	80.6	81.4	82.7	84.6	86.1							115.0
500	74.3	74.6	75.6	76.9	77.4	79.2	81.1	81.7	83.0	84.6	84.9							114.5
630	76.1	75.9	76.9	79.2	79.9	81.7	83.1	84.2	84.5	85.1	84.6							116.1
800	76.6	76.9	77.9	79.2	79.9	81.9	82.8	84.1	84.2	85.1	84.6							116.1
1000	74.6	75.6	76.1	77.7	79.1	81.4	82.3	83.4	84.2	84.3	83.1							115.3
1250	74.7	74.4	76.1	77.5	78.4	80.2	81.6	82.6	84.0	84.1	82.4							114.8
1600	73.4	74.4	74.9	76.0	77.5	79.2	80.1	80.1	81.2	81.6	80.6							112.9
2000	74.2	74.5	75.4	77.3	79.0	80.3	80.3	81.4	82.7	82.4	81.1							113.9
2500	73.2	73.7	75.4	77.4	78.3	80.0	80.1	80.1	81.0	79.9	79.3							112.9
3150	73.9	73.0	72.6	74.6	77.0	78.8	78.5	78.6	80.0	78.9	77.6							111.4
4000	72.1	73.2	74.3	77.1	79.8	81.5	83.7	84.0	87.2	83.1	79.3							116.0
5000	70.6	71.4	73.0	75.6	78.0	80.9	83.2	84.9	85.6	81.8	77.7							115.3
6300	71.7	73.5	75.0	78.0	79.4	84.4	86.2	86.5	89.9	84.3	79.3							118.7
8000	71.8	73.7	75.5	78.7	80.8	84.6	87.5	90.5	91.8	86.0	80.4							120.4
10000	71.6	73.3	75.8	79.8	82.6	86.7	90.2	91.5	91.4	85.5	80.1							121.5
12500	72.9	74.3	76.7	80.4	84.6	87.6	89.1	92.8	92.6	86.9	80.8							122.5
16000	70.9	73.5	76.6	81.1	84.0	87.3	88.9	92.4	91.6	86.2	80.8							122.3
20000	71.0	73.6	77.3	82.0	84.6	88.2	90.9	93.5	93.1	87.3	81.5							124.0
25000	70.8	73.2	76.8	81.3	84.2	87.1	90.0	93.6	92.7	87.0	80.5							124.3
31500	69.7	72.4	76.1	80.9	84.3	87.3	89.0	91.6	91.0	86.1	78.4							123.9
40000	68.0	69.9	73.6	77.6	81.0	84.5	86.0	87.9	87.8	82.8	73.0							122.6
50000	67.7	67.3	70.3	74.1	76.9	80.0	82.2	82.1	82.5	78.8	68.6							119.1
63000	68.6	66.0	68.3	68.2	70.7	73.3	75.3	74.5	75.0	72.5	64.5							115.1
80000	72.1	70.9	70.7	68.2	67.7	69.0	69.5	69.1	69.1	68.0	65.8							116.3
OVERALL MEASURED	88.6	89.4	90.8	93.1	95.1	97.9	99.9	102.3	102.4	99.3	98.3							133.7
OVERALL CALCULATED	98.5	99.4	100.5	102.6	104.4	106.9	108.4	110.8	111.2	108.8	106.8							

MODEL SCALE SOUND PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	44.4	48.9	50.3	50.5	51.3	52.4	51.9	52.3	54.3	57.3	57.5						
125	51.0	54.6	55.0	53.9	54.7	55.3	55.8	57.0	58.4	57.2	56.9						
160	50.9	51.5	53.2	54.1	53.9	54.0	56.0	56.9	57.6	58.3	57.4						
200	49.3	50.6	52.1	53.5	55.3	58.2	57.7	58.6	58.7	59.1	57.7						
250	55.1	56.3	59.0	59.6	60.2	61.6	61.8	62.7	61.3	61.0	57.7						
315	54.5	55.7	56.9	58.1	57.7	59.0	59.0	59.1	58.7	58.3	56.0						
400	52.5	53.9	54.6	56.0	56.9	57.4	57.9	57.8	57.6	57.2	54.8						
500	49.9	51.3	53.0	54.7	55.2	56.9	58.3	57.9	57.7	57.0	53.3						
630	51.6	52.4	54.1	56.5	57.7	59.3	60.2	60.3	59.1	57.3	52.8						
800	51.9	53.3	55.0	56.7	57.5	59.4	59.8	60.2	58.7	57.1	52.5						
1000	50.6	51.9	53.1	55.1	56.7	58.6	59.2	59.3	58.5	56.2	50.6						
1250	49.7	50.5	53.0	54.9	55.5	57.4	58.3	58.3	58.1	55.7	49.5						
1600	48.2	50.3	51.5	53.1	54.7	56.3	56.4	55.6	55.1	52.9	47.3						
2000	48.7	50.1	51.8	54.2	56.3	57.1	56.6	56.7	56.4	53.3	47.4						
2500	47.5	49.2	51.7	54.1	55.1	56.7	56.2	55.2	54.4	50.5	45.2						
3150	44.9	47.2	48.6	51.1	53.6	55.2	54.3	53.3	53.0	49.1	42.7						
4000	45.6	47.9	49.8	53.2	55.9	57.5	59.1	58.3	59.6	52.5	43.3						
5000	43.7	45.8	48.3	51.4	53.9	56.7	58.3	58.9	57.7	50.8	41.1						
6300	43.9	47.1	49.5	53.1	54.6	59.4	60.5	61.6	61.0	52.0	40.8						
8000	42.7	46.1	48.9	53.7	55.2	58.5	60.7	62.3	61.3	51.5	39.1						
10000	40.6	43.9	47.6	52.3	55.3	59.1	61.6	61.5	58.8	48.6	34.9						
12500	39.0	42.4	46.2	50.6	55.0	57.8	58.3	60.3	57.8	46.1	29.9						
16000	32.4	37.5	42.2	47.7	50.9	53.4	54.3	55.5	51.8	38.9	28.4						
20000	26.4	32.2	37.9	43.4	46.8	49.9	51.1	51.8	45.7	31.5	8.7						
25000	17.5	24.3	30.2	36.2	39.6	41.8	42.9	42.9	35.8	19.2							
31500	3.6	11.8	18.9	25.9	29.7	31.9	31.2	29.1	20.3	0.9							
40000			0.8	7.4	11.7	14.1	12.3	7.7									
50000																	
63000																	
80000																	
OVERALL CALCULATED	63.2	64.9	66.5	68.2	69.4	71.4	72.2	72.6	71.8	69.4	66.5						
DNDB	72.6	74.5	76.5	78.9	80.8	82.7	83.7	84.0	83.6	78.8	72.4						

SIDELINE 200. FT. (60.96 M)
VEHICLE S-55
CONFIG 75-7
LOC SCHENECTADY
DATE 1/22/75
RUN: 64/5
TAPE
BAR 30.1 HG (01584. N/M2)
TAMB 44. DEG F (280. DEG K)
TDEW 39. DEG F (277. DEG K)
HACT 4.61 GM/M3 (.00481 KG/M3)
NFA 7820. RPM (819. RAD/SEC)
NFK 7936. RPM (831. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 683. FT/SEC

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 27 HR. 13.8

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS).

		53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	94. (1.64)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. T10.	0. T10.	0. T10.	0. T10.	0. T10.	PWL
	FREQ.																		
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI)	100	68.3	71.4	72.4	72.2	73.1	74.4	74.4	75.4	78.7	83.6	87.6							112.5
VEHICLE B-58	125	74.8	77.1	76.5	75.9	75.4	77.2	78.8	80.4	80.7	83.6	87.6							114.1
CONFIG 75-7	160	75.0	76.1	75.9	76.4	75.9	76.7	78.6	80.2	82.2	85.3	87.4							114.5
LOC SCHENECTADY	200	73.8	73.4	74.1	75.7	77.1	78.9	79.9	81.9	83.2	86.6	88.3							115.4
DATE 1/2273	250	79.3	79.4	81.1	81.9	82.4	83.4	84.3	85.6	86.9	87.8	88.6							118.4
RUN 64/6	315	78.8	78.9	79.1	79.0	79.9	80.7	81.3	82.4	82.7	85.9	86.8							115.9
TAPE	400	76.8	76.9	77.4	77.9	78.6	79.2	80.4	81.4	82.5	84.9	85.8							114.9
BAR 30.1 HG	500	74.3	74.6	75.9	76.2	77.1	78.9	80.4	81.4	82.5	84.3	84.9							114.2
(101584. N/M2)	630	75.6	75.6	77.1	78.7	79.9	81.7	83.4	83.9	84.5	85.3	84.6							116.1
TAMB 44. DEG F	800	76.9	76.9	78.1	79.9	79.9	81.7	82.6	83.6	84.0	84.8	84.1							116.6
(280. DEG K)	1000	74.4	74.9	76.4	77.7	79.1	81.2	82.1	82.9	84.0	84.3	82.9							115.1
TWET 39. DEG F	1250	74.2	74.2	75.6	77.5	78.4	80.2	81.6	82.4	83.5	83.6	82.4							114.5
(277. DEG K)	1600	73.2	73.4	74.6	76.5	77.2	79.0	79.8	80.1	80.7	81.4	80.9							112.7
HACT 4.81 GM/M3	2000	73.7	74.5	75.9	77.3	78.5	80.0	80.1	82.1	83.2	81.9	80.4							113.9
(.00481 KG/M3)	2500	73.2	73.7	75.4	77.4	78.3	79.8	79.5	79.9	81.0	79.9	78.8							112.7
NFA 7815. RPM	3150	72.9	71.5	73.1	74.9	76.5	79.0	78.5	78.6	80.2	78.7	77.3							111.4
(818. RAD/SEC)	4000	71.4	72.9	74.3	77.4	80.3	81.2	83.2	84.3	87.4	82.9	79.3							116.0
NFK 7932. RPM	5000	72.8	71.2	73.5	75.9	78.8	80.4	83.4	84.7	85.6	82.1	78.0							115.3
(830. RAD/SEC)	6300	72.4	73.8	75.7	77.9	79.4	84.2	86.2	87.5	89.9	84.0	79.0							118.5
NFD 8823. RPM	8000	71.8	73.4	75.5	78.5	81.1	84.9	87.7	90.5	92.0	85.7	79.9							120.5
(924. RAD/SEC)	10000	71.9	73.3	76.3	80.1	82.1	86.2	89.2	91.0	91.4	85.5	80.3							121.1
NO. OF BLADES 15	12500	71.1	73.8	76.2	80.9	84.1	87.1	89.8	92.4	92.6	86.9	81.3							122.5
FAN TIP SPEED	16000	71.2	73.5	77.1	81.1	84.0	88.8	89.2	92.4	91.4	86.2	81.8							122.3
682. FT/SEC	20000	71.7	73.4	77.6	81.3	84.9	88.8	91.2	93.6	93.6	87.5	81.5							124.3
	25000	72.6	73.9	78.8	82.8	85.7	87.3	90.3	92.8	93.4	87.0	80.8							124.3
	31500	69.7	71.9	76.1	80.7	83.5	86.6	89.3	91.3	91.5	85.1	78.2							123.8
	40000	67.8	69.4	73.4	77.8	80.5	83.5	86.0	87.9	88.1	82.5	75.0							121.9
	50000	67.3	66.8	70.8	73.6	76.7	79.3	82.0	82.3	82.5	79.3	68.6							119.0
	63000	68.4	66.0	68.3	68.4	70.7	73.3	75.3	74.5	75.2	72.2	65.0							118.1
	80000	72.1	69.2	70.7	67.9	68.2	69.0	69.5	69.1	69.1	67.7	65.8							116.2
OVERALL MEASURED																			
OVERALL CALCULATED		88.6	89.2	90.9	93.0	95.0	97.6	99.9	102.1	102.5	99.2	98.2							133.6
	PNLB	98.5	99.2	100.6	102.7	104.5	106.6	108.3	109.8	111.2	108.6	106.7							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

SIDELINE 200. FT. (60.96 M)
VEHICLE A-8S
CONFIG 75-7
LOC SCHENECTADY
DATE 1/22/75
RUN 84/4
TAPE
BAR 30.1 IN HG (.0154. N/M2)
TAMB 44. DEG F (280. DEG K)
TWET 39. DEG F (277. DEG K)
HACT 4.81 GM/M3 (.00481 KG/M3)
NFA 7816. RPM (818. RAD/SEC)
NFK 7932. RPM (830. RAD/SEC)
NFD 8023. RPM (824. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 682. FT/SEC

FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	154. (2.73)	0. 0. 0. 0. 0. 0. 0. 110. 110. 110. 110. 110. 110.
50												
63												
80												
100	44.6	48.7	50.3	50.5	51.5	52.7	52.2	52.3	54.3	57.0	57.5	
125	51.0	54.3	54.5	54.1	54.7	55.3	56.3	57.3	56.2	56.9	57.4	
160	51.2	53.2	53.7	54.6	54.1	54.8	56.2	56.9	57.6	58.5	56.9	
200	49.8	50.4	51.8	53.7	55.3	56.9	57.4	58.6	58.5	59.6	57.7	
250	55.0	56.3	58.7	59.9	60.5	61.3	61.8	62.2	61.3	60.7	57.7	
315	54.4	55.7	56.6	57.8	57.9	58.5	58.7	58.9	57.7	58.3	55.8	
400	52.5	53.6	54.8	55.7	56.4	56.9	57.6	57.8	57.4	57.4	54.5	
500	49.9	51.3	53.2	53.9	55.0	56.6	57.5	57.7	57.2	54.8	53.3	
630	51.1	52.2	54.4	56.3	57.7	59.3	60.4	60.0	59.1	57.6	52.8	
800	52.2	53.3	55.2	56.5	57.5	59.2	59.5	59.7	58.4	56.9	52.0	
1000	49.6	51.1	53.3	55.1	56.7	58.8	58.9	58.8	58.3	54.2	50.4	
1250	49.2	50.2	52.5	54.8	55.9	57.4	58.3	58.1	57.6	55.2	49.5	
1600	47.9	49.3	51.3	53.5	54.4	56.0	56.3	55.6	54.6	52.7	47.8	
2000	48.2	50.1	52.3	54.2	55.5	56.9	56.4	57.4	56.9	52.9	48.8	
2500	47.5	49.2	51.7	54.1	55.1	56.4	55.7	54.9	54.4	50.5	44.7	
3150	44.9	46.7	49.1	51.3	53.1	55.4	54.3	53.3	53.2	48.8	42.4	
4000	44.8	47.7	49.8	53.4	56.2	57.2	58.8	58.5	59.8	52.3	43.3	
5000	44.0	45.6	48.4	51.6	53.9	55.2	58.5	58.7	57.7	51.1	41.3	
6300	44.7	45.6	50.3	52.8	54.6	59.2	60.5	60.9	61.8	51.8	40.8	
8000	42.7	45.8	48.9	52.5	55.2	58.8	60.9	62.3	61.6	51.5	38.8	
10000	40.8	43.9	48.1	52.5	54.8	58.6	60.8	61.8	58.9	48.8	35.1	
12500	39.2	41.9	46.4	51.1	54.5	57.3	58.8	60.3	57.8	46.1	30.4	
16000	32.7	37.5	42.7	47.7	50.9	53.3	54.5	55.5	54.7	38.9	20.8	
20000	27.1	31.9	38.2	43.9	47.8	49.8	51.3	51.2	46.2	31.8	8.7	
25000	17.3	23.8	30.2	35.7	39.1	42.1	43.2	42.2	36.6	19.2		
31500	3.6	11.3	18.9	25.5	29.8	31.4	31.5	28.8	20.8			
40000			1.8	7.7	11.5	13.1	12.3	7.7				
50000												
63000												
80000												
OVERALL CALCULATED	63.2	64.7	66.5	68.2	69.4	71.2	72.1	72.4	71.7	69.3	66.4	
PNL	79.5	78.3	78.7	79.8	80.9	82.5	83.5	83.7	83.7	78.7	72.1	

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 27 HR. 13.8

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	53. (.92)	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. MI	100	74.3	75.9	79.9	82.5	81.8	81.1	78.0	72.0	71.2	75.5	77.4							113.8
VEHICLE R-99	125	67.5	68.2	71.2	68.0	70.3	68.6	67.8	72.0	72.0	72.3	75.2							104.7
CONFIG 78-7	160	64.7	66.4	66.2	67.0	67.0	66.9	68.5	70.2	71.7	73.0	75.9							103.8
LOC SCHENECTADY	200	63.7	64.4	65.1	67.0	67.3	69.4	69.8	72.2	73.2	75.5	77.1							105.0
DATE 1/22/75	250	67.7	68.9	70.1	70.2	70.8	71.6	72.3	73.8	72.9	74.5	75.9							108.0
RUN 6477	315	68.5	70.4	69.9	70.0	70.0	71.4	71.3	72.2	72.7	74.9	74.9							105.8
TAPE	400	55.8	67.7	67.6	68.2	68.8	69.9	70.8	71.5	72.2	73.0	74.1							104.5
BAR 30.1 HG	500	65.0	66.2	66.6	67.2	68.6	70.2	71.5	72.2	73.4	73.9	73.7							104.7
(1015.4 MB)	630	67.6	67.7	69.2	70.7	72.1	73.7	75.3	75.8	76.5	76.3	74.9							107.8
TAMB 44. DEG F	800	67.9	68.9	68.9	71.0	71.8	74.2	74.8	76.0	76.7	76.5	73.9							107.8
(280. DEG K)	1000	54.6	65.2	67.6	69.7	71.1	73.2	75.0	76.2	76.9	77.8	72.4							107.7
TWET 39. DEG F	1250	67.8	68.7	70.9	73.4	73.5	75.5	77.5	84.5	81.2	82.1	75.9							111.5
(277. DEG K)	1600	64.3	65.5	66.9	68.4	69.6	71.7	73.5	74.7	74.5	75.0	74.0							100.1
HACT 4.81 GM/M3	2000	62.1	63.5	64.1	65.9	67.2	69.2	69.5	70.0	71.0	71.9	68.7							102.6
(3.00481 KG/M3)	2500	59.4	64.0	65.1	66.9	69.2	70.5	73.2	70.2	71.7	72.1	68.1							103.2
NFA 5479. RPM	3150	60.4	62.3	62.6	64.7	66.4	69.2	70.4	70.2	72.0	72.1	69.9							102.7
(574. RAD/SEC)	4000	61.3	63.7	64.3	66.4	68.9	71.7	73.1	75.4	77.4	77.3	70.6							100.9
NFK 5960. RPM	5000	60.9	62.2	63.5	65.7	67.9	71.9	75.1	78.3	77.4	76.8	70.5							107.8
(582. RAD/SEC)	6300	62.9	64.5	65.5	67.9	70.3	73.9	76.3	80.4	81.4	79.8	72.3							110.2
NFD 6823. RPM	8000	63.8	65.8	66.8	68.9	72.2	75.6	77.9	81.3	82.2	80.9	74.7							111.6
(824. RAD/SEC)	10000	66.3	67.8	70.6	75.1	78.3	81.2	83.4	85.6	86.9	83.4	79.1							110.3
NO. OF BLADES 16	12500	69.1	71.6	72.9	78.4	82.5	83.9	85.0	87.7	88.3	84.1	79.9							110.4
FAN TIP SPEED	16000	63.9	65.3	66.9	73.1	78.2	79.5	81.6	84.8	85.4	82.6	74.8							114.9
670. FT/SEC	20000	62.2	64.2	65.6	70.8	74.3	78.0	80.8	83.6	85.5	80.2	73.3							115.8
	25000	63.4	67.5	63.5	68.4	72.7	75.6	77.5	84.4	81.6	78.0	70.3							112.4
	31500	59.9	61.2	62.4	64.2	71.7	75.5	77.2	79.4	80.5	76.8	68.2							112.5
	40000	59.5	59.8	61.1	65.4	69.9	71.7	74.8	75.5	76.6	73.2	63.5							110.2
	50000	60.1	58.9	61.3	63.6	64.6	67.7	69.6	70.2	71.7	68.9	59.4							107.8
	63000	61.0	58.8	60.8	60.8	60.5	62.8	63.5	63.1	64.5	62.9	57.1							104.9
	80000	63.5	64.2	61.8	60.5	59.6	60.8	59.9	59.7	59.3	58.7	56.8							107.7
OVERALL MEASURED																			
OVERALL CALCULATED		68.5	69.2	69.1	69.8	68.5	90.2	91.6	93.9	94.9	92.4	88.8							120.5
		68.9	90.7	91.8	93.7	95.7	98.1	98.7	101.9	102.7	101.9	97.7							

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	53. (0.92)	63. (1.09)	73. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	131. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.
50																	
63																	
80																	
100	53.3	57.2	57.8	60.9	60.2	59.4	55.8	48.9	48.4	49.8	47.3						
125	47.7	45.4	49.8	48.2	48.6	48.8	45.5	48.8	47.4	49.8	46.8						
160	49.8	48.3	48.9	48.1	45.3	45.8	46.2	47.8	47.1	44.9	45.4						
200	39.3	41.4	42.8	44.9	45.5	47.4	47.3	46.9	48.4	49.5	46.5						
250	43.6	45.8	47.7	48.2	48.9	49.6	49.7	49.6	48.1	47.4	45.8						
315	44.3	47.3	47.4	47.8	48.1	49.3	48.6	48.7	47.7	46.8	43.8						
400	42.5	44.4	45.1	46.3	46.7	47.7	48.9	47.9	47.1	45.9	42.8						
500	43.6	42.8	44.3	45.3	46.4	47.9	48.7	47.5	46.2	46.2	42.1						
630	43.3	44.2	46.4	48.4	49.8	51.3	52.3	51.9	51.1	48.5	43.1						
800	43.1	45.3	46.8	48.5	49.2	51.7	51.7	52.0	51.2	48.6	41.8						
1000	39.7	42.4	44.6	47.1	48.8	50.5	51.4	52.1	51.2	49.8	39.8						
1250	42.4	45.8	47.7	51.1	51.8	52.7	54.2	54.2	53.3	51.9	43.1						
1600	39.1	41.4	43.5	45.9	46.9	48.8	53.8	58.2	48.3	47.1	37.6						
2000	34.7	39.2	40.6	43.8	44.2	44.1	45.8	45.3	44.6	42.8	34.9						
2500	36.7	39.5	41.4	43.6	45.1	47.2	46.3	45.3	45.1	42.7	34.8						
3150	34.3	37.5	38.6	41.1	43.8	45.7	46.3	44.8	45.8	42.2	32.8						
4000	34.8	38.3	38.8	42.5	43.1	47.7	48.5	49.6	49.8	46.7	34.6						
5000	37.9	38.6	38.8	41.4	43.4	47.7	53.2	52.3	49.4	48.8	33.8						
6300	35.1	34.2	40.8	42.9	45.5	48.9	50.7	53.5	52.5	48.7	33.9						
8000	33.8	37.4	38.4	43.8	49.4	49.3	51.1	52.2	51.8	46.7	33.4						
10000	35.2	43.5	42.4	47.6	51.8	53.6	55.8	55.6	54.3	46.5	33.9						
12500	34.2	38.7	42.4	48.7	52.9	54.8	54.2	55.1	52.7	43.3	28.9						
16000	25.5	27.3	32.5	38.7	43.1	45.9	46.8	47.1	44.7	33.4	14.4						
20000	17.5	22.7	26.2	32.6	36.4	39.8	41.8	41.8	38.2	24.4	8.5						
25000	9.4	13.3	17.8	24.3	28.8	33.3	36.4	29.8	24.8	10.1							
31500		3.6	9.7	14.1	17.1	23.1	19.4	16.9	9.7								
40000						1.3	0.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	55.3	57.9	60.8	63.3	63.8	64.6	64.5	64.9	63.7	60.9	55.4						
PNLS	62.5	65.4	67.3	69.7	71.5	72.7	72.7	73.8	72.8	71.6	62.1						

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA [illegible]

PHYS. DATE = MONTH 3 DAY 28 NO. 11.0

[illegible] 159. DEG. F= 70 DEGREES PER MIN. DAY)

ANGLE FROM INLET IN DEGREES (AND RADIANS)

		52.	71.	91.	91.	131.	111.	122.	131.	145.	156.	0.	0.	0.	0.	0.	0.	0.	PHI
	PHI=	(1.0)	(1.2)	(1.4)	(1.6)	(1.8)	(2.0)	(2.1)	(2.3)	(2.5)	(2.7)	(0.	10.	30.	50.	70.	90.	110.	130.	150.	170.	190.	210.	230.	250.	270.	290.	310.	330.	350.	
		50																	
		69																	
RADIAL	17. FT.	70																	
	S. T.	170	77.2	81.2	82.7	90.3	81.4	79.3	72.5	71.5	75.3	74.9																			113.4
VEHICLE	[illegible]	175	78.7	77.2	80.2	75.9	69.9	69.9	71.5	72.5	73.1	74.2																			104.9
CTLAIG	79=8	180	68.4	85.7	85.2	86.4	85.3	87.1	72.0	71.5	73.0	75.4																			103.3
LOC	SCHEDULED	230	64.4	85.4	86.2	87.1	87.9	70.8	72.5	73.2	75.0	74.9																			104.9
DATE	3/28/75	270	69.1	88.9	88.9	89.8	71.1	72.5	73.0	73.4	73.7	75.1																			105.8
RUN	6371	315	73.2	89.9	90.2	91.0	71.1	71.3	72.0	72.4	73.0	74.4																			105.2
TAPE		410	67.2	87.2	88.2	87.3	69.7	70.5	71.2	71.9	72.8	73.4																			104.1
BAR	30.9 MB	530	75.4	84.1	87.2	88.9	69.9	71.5	72.5	73.9	73.5	73.4																			104.6
	(1019.7 MB)	630	67.2	84.9	73.5	75.1	73.7	75.9	75.9	79.7	76.3	73.9																			107.4
TAT=	66. DEG F	650	58.4	68.1	73.7	71.4	73.4	74.3	75.5	76.2	74.3	72.9																			107.3
	(290. DEG K)	1050	59.9	67.4	68.7	70.4	72.7	74.5	75.7	76.8	76.5	71.7																			107.1
T=CT	35. DEG F	1250	67.5	69.1	73.3	73.1	74.5	74.3	78.2	80.0	81.0	73.9																			110.1
	(277. DEG K)	1450	62.9	65.3	67.8	69.4	70.7	72.2	73.5	73.7	74.4	70.2																			104.9
HACT	4.83 GM/M3	1650	62.3	64.1	65.9	67.3	68.2	69.2	69.7	70.0	70.1	67.7																			101.0
	(.00418 KG/M3)	2550	61.5	64.3	66.4	68.2	70.3	70.2	69.4	71.0	71.3	66.9																			102.7
WFA	5677. RPM	3150	61.8	62.4	63.7	65.7	69.9	69.1	69.2	70.7	69.4	66.4																			101.5
	(594. RAD/SEC)	3750	63.2	63.1	64.7	66.2	71.7	73.9	74.1	74.9	73.3	68.3																			100.3
WFF	5568. RPM	5250	62.9	63.5	65.2	67.9	71.7	75.1	74.3	77.1	73.5	69.3																			107.1
	(583. RAD/SEC,	6350	64.3	65.5	68.1	71.1	74.2	77.1	78.0	80.6	78.2	72.3																			109.8
WFC	6823. RPM	9150	65.7	66.8	70.0	73.5	75.8	78.9	81.3	82.7	80.7	73.7																			111.9
	(714. RAD/SEC)	13750	71.6	72.6	76.9	80.1	83.9	85.9	86.3	88.1	86.7	83.9																			118.2
NO. OF	BLADES 19	16250	67.3	69.7	74.7	79.7	81.8	83.8	84.7	86.6	81.3	79.8																			116.0
FAN TIP	SPEED	18750	64.8	67.1	72.4	76.2	79.8	81.4	83.2	85.4	79.4	73.8																			110.6
	499. FT/SEC	23650	62.7	65.3	70.3	73.8	77.5	79.1	81.0	83.8	76.4	72.1																			113.5
		25850	61.8	63.3	68.1	71.4	75.1	77.9	79.7	81.4	76.5	69.3																			111.7
		31550	60.2	62.5	67.7	71.0	74.2	76.2	77.9	80.2	74.8	67.7																			111.5
		43750	58.5	61.1	64.9	67.5	71.4	73.5	74.7	76.8	72.8	63.8																			105.7
		54650	59.6	61.1	61.1	64.1	67.2	70.1	70.4	71.7	67.8	59.2																			102.4
		63750	58.3	60.8	59.5	60.1	62.6	64.8	63.4	64.5	61.9	57.1																			104.5
		83950	64.7	61.8	59.7	59.3	59.7	59.9	59.2	59.5	57.8	56.8																			106.9
	OVERALL MEASURED																														
	OVERALL CALCULATED	12.1	64.5	66.5	68.1	98.1	91.7	93.8	94.5	92.1	88.9																				128.8
		9438	98.8	91.7	94.2	96.4	99.1	100.7	101.6	102.9	101.9	98.9																			

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 28 HR. 11.9

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE R-55
CONFIG 7548
LOC SCHENECTADY
DATE 1/22/75
RUN 63/1
TAPE
BAR 30.2 HG (31957. N/M2)
TAMB 44. DEG F (280. DEG K)
TACT 39. DEG F (277. DEG K)
HACT 4.60 GM/M3 (.00460 KG/M3)
NFA 5487. RPM (574. RAD/SEC)
NFK 5568. RPK (583. RAD/SEC)
NFB 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 479. FT/SEC

FREQ.	42. (1.05)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	126. (2.19)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.
50																	
63																	
80																	
100	54.5	59.1	61.0	60.7	59.7	56.1	49.4	47.0	48.7	46.8							
125	48.9	50.0	46.4	50.5	47.1	45.7	48.3	47.9	45.6	44.9							
160	42.5	43.4	44.4	45.1	45.0	45.9	46.8	46.8	46.2	44.9							
200	41.4	43.1	44.3	45.7	47.9	47.6	48.9	48.4	48.0	46.2							
250	45.3	47.5	47.9	47.3	49.1	50.0	49.6	48.6	46.6	44.3							
315	46.0	47.4	46.1	48.3	49.0	48.6	48.5	47.5	46.5	43.3							
400	43.9	45.3	46.0	46.2	47.7	47.8	47.8	46.8	45.3	42.1							
500	42.1	43.5	45.0	46.2	47.6	48.7	48.8	48.7	45.9	41.8							
630	43.7	46.1	48.1	49.4	51.3	52.1	51.9	50.3	48.5	42.1							
800	44.8	46.2	48.3	49.2	50.9	51.7	51.5	50.7	48.3	40.8							
1000	42.2	44.3	46.1	48.3	50.0	51.3	51.6	51.2	48.3	39.2							
1250	43.5	46.3	49.3	49.5	51.7	52.7	54.9	54.1	52.6	41.1							
1600	39.9	42.5	44.9	45.6	47.8	48.7	49.0	47.6	45.8	36.9							
2000	38.4	40.6	42.8	44.9	45.1	45.5	44.0	43.6	41.0	33.9							
2500	39.0	40.9	43.1	45.1	46.9	46.3	44.5	44.4	42.0	32.7							
3150	37.0	38.3	40.1	42.3	45.4	45.3	43.0	43.7	39.7	30.5							
4000	34.0	39.6	42.7	44.4	47.7	49.2	50.4	49.3	42.7	32.3							
5000	36.4	38.8	40.9	43.8	47.4	50.2	52.3	49.2	42.5	31.4							
6300	36.2	40.0	43.1	46.5	49.2	51.4	52.0	51.7	46.9	33.9							
8000	38.1	40.2	44.0	47.6	47.8	52.1	53.2	52.3	46.5	32.4							
10000	42.2	44.3	49.3	53.0	56.3	57.5	58.4	55.6	49.8	38.7							
12500	35.4	39.2	44.9	49.2	51.5	53.0	52.1	51.0	40.5	24.7							
16000	28.8	32.8	39.0	43.1	45.5	46.7	46.3	44.7	32.1	13.2							
20000	21.2	25.9	32.1	35.7	39.1	39.3	39.3	36.5	23.7								
25000	12.6	16.7	23.0	26.4	29.8	29.8	29.0	24.6	8.6								
31500		5.4	12.6	16.4	18.9	18.4	15.4	9.5									
40000					1.0												
50000																	
63000																	
80000																	
OVERALL CALCULATED	58.0	61.4	63.2	64.0	64.7	64.7	64.4	63.5	60.4	54.9							
PNDB	65.0	67.2	69.6	71.5	73.9	74.6	75.5	74.3	70.5	60.9							

PAGE 1 FULL SCALE DATA REPORT: FAN/FAN

PRFC. DATE = MONTH 3 DAY 28 HR. 11.9

TOTAL SOUND PRESSURE LEVELS (SQ. DFG. FO 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

RADIAL 17. FT.	REF.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.32)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
(5. M)	100	75.9	74.2	71.9	69.4	69.3	71.0	72.2	73.2	76.5	80.9								107.9
VEHICLE RUSS	125	71.2	72.3	73.2	72.9	71.2	71.3	74.2	75.0	76.5	79.7								107.6
CONFIG 75-A	160	69.7	69.2	73.2	74.1	73.2	71.4	73.5	75.5	77.3	80.2								107.3
LOC SCHEDTARY	200	67.4	68.9	69.7	71.4	73.4	73.6	76.2	77.2	79.5	81.1								108.9
DATE 1/22/75	250	71.4	72.9	73.1	73.4	73.2	75.5	76.2	77.4	77.7	79.6								109.1
RUN 63/2	315	72.9	73.5	73.4	73.5	74.7	75.3	75.2	76.2	77.8	78.9								109.0
TAPE	400	73.4	73.3	73.4	73.6	73.7	73.9	74.7	76.2	76.8	77.6								107.7
BAR 33.2 HG	500	69.2	69.1	73.2	73.1	72.9	74.4	75.2	76.4	77.6	77.2								107.7
(81957. N/M2)	630	69.9	72.2	73.7	74.7	75.2	77.9	78.5	79.2	78.3	77.2								110.2
TAMB 45. DEG F	800	71.2	71.9	73.4	74.1	76.0	77.0	78.5	79.2	78.0	76.4								110.0
(280. DEG K)	1000	69.5	70.4	71.5	72.1	75.0	75.5	78.2	79.2	78.8	75.4								109.5
TAFT 30. DEG F	1250	67.7	69.2	70.8	71.7	74.0	74.2	77.7	79.0	78.1	74.7								108.9
(276. DEG K)	1600	68.0	69.2	71.3	73.0	75.2	75.2	76.5	78.2	78.3	73.9								108.7
HACT 3.99 GM/M3	2000	66.3	67.7	68.9	70.9	71.5	72.7	73.2	73.7	73.8	71.4								105.3
(.00398 KG/M3)	2500	67.9	67.7	70.4	71.5	73.0	73.5	72.7	75.2	73.8	70.9								106.0
RFA 6267. RPM	3150	65.3	66.4	68.2	70.1	73.0	73.5	74.7	76.2	73.1	70.4								106.1
(656. RAD/SEC)	4000	64.8	66.4	69.2	71.0	74.0	75.4	77.4	77.9	73.8	70.4								107.8
NFK 6353. RPM	5000	64.8	66.3	70.4	72.3	74.5	78.6	82.1	80.7	75.3	71.0								110.7
(665. RAD/SEC)	6300	67.4	68.8	73.8	75.4	77.0	81.1	82.2	84.4	80.8	74.2								113.0
NFD 8823. RPM	8000	67.8	69.4	72.6	75.5	78.4	82.0	84.2	86.1	82.2	75.5								114.7
(924. RAD/SEC)	10000	69.0	70.3	74.4	77.3	80.3	83.5	86.0	87.7	82.0	76.5								116.3
NO. OF BLADES 16	12500	72.2	73.9	81.5	84.2	86.0	87.4	89.3	89.2	84.0	78.5								119.9
FAN TIP SPEED	15000	73.5	75.3	81.5	84.7	85.7	84.8	87.7	87.8	81.6	76.5								119.3
567. FT/SEC	20000	66.5	69.7	75.6	78.5	81.6	84.9	87.2	89.1	82.3	76.7								118.5
	25000	64.8	67.8	73.1	76.2	79.3	81.9	85.2	86.1	80.0	73.9								116.6
	31500	63.4	66.5	72.6	75.2	77.9	80.6	82.9	83.7	78.3	71.2								115.6
	40000	62.2	63.8	69.0	72.3	75.2	77.7	79.2	80.8	74.7	65.8								113.8
	50000	57.1	62.0	66.3	68.9	71.5	73.6	74.0	75.2	70.7	61.7								111.8
	63000	57.2	60.7	64.9	65.9	68.4	66.6	66.2	67.8	63.5	58.4								108.1
	80000	59.2	61.3	66.7	66.7	67.8	66.5	59.8	61.4	58.6	57.0								110.6
OVERALL MEASURED																			
OVERALL CALCULATED		83.8	85.2	88.3	90.6	92.5	94.5	96.3	97.3	93.3	91.1								127.9
	PWL	92.9	93.9	95.8	97.5	100.0	102.7	104.3	105.5	101.1	98.5								

ORIGINAL PAGE IS OF POOR QUALITY

SIDELINE 200. FT. (60.96 M)
VEHICLE P-3
CONFIG 75-8
LOC SCHENECTADY
DATE 1/27/75
RUN 63/2
TAPE
BAR 30.2 IN HG (101657. N/M**2)
TAMB 65. DEG F (291. DEG K)
TAFT 38. DEG F (276. DEG K)
HACT 3.98 GM/M3 (.00338 KG/M3)
NFA 6247. RPM (656. RAD/SEC)
NFK 6353. RPM (665. RAD/SEC)
NFC 8923. RPM (934. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 547. FT/SEC

FULL SCALE PRESSURE LEVELS (52. DEG. F. 70 PERCENT REL. HUM. DAY)
PRES. RATE = MONTH 3 DAY 28 MP. 15.9
ANGLES FROM INLET IN DEGREES (AND RADIANS)

FPS		62. (1.08)	71. (1.24)	84. (1.46)	91. (1.58)	101. (1.76)	111. (1.94)	124. (2.16)	133. (2.32)	145. (2.52)	156. (2.72)	0.	10.	20.	30.	40.	50.
	30																
	63																
	90																
100		53.2	52.1	49.5	48.4	48.2	49.4	49.2	48.8	50.0	50.8						
150		49.4	50.7	48.4	51.2	48.3	49.0	51.1	50.4	49.8	49.4						
200		45.8	46.8	48.3	48.4	48.3	49.4	50.3	50.6	50.4	49.7						
250		44.4	46.5	47.7	49.6	51.4	51.3	52.9	52.4	52.5	50.5						
300		43.2	50.5	51.1	51.5	51.8	53.0	52.8	52.6	50.6	48.8						
315		42.8	51.1	51.3	51.7	52.5	52.6	51.7	51.2	50.5	47.8						
400		47.2	48.3	49.2	49.6	50.4	51.0	51.1	51.1	49.3	46.3						
500		44.7	46.5	47.9	49.0	50.6	51.9	51.5	51.2	49.4	45.6						
630		44.5	48.4	51.3	52.4	53.8	54.8	54.4	53.8	50.5	45.3						
800		47.6	49.0	51.0	51.6	53.4	54.0	54.5	53.7	50.1	44.3						
1000		45.2	47.4	48.8	50.7	52.3	53.3	54.1	53.5	50.4	42.9						
1250		43.8	46.0	48.0	49.1	51.2	52.9	53.4	53.1	49.6	41.9						
1600		43.9	45.8	48.4	50.2	52.0	51.7	52.8	52.1	49.8	40.7						
2000		42.0	44.1	45.8	47.3	48.4	49.1	48.8	47.4	44.5	37.7						
2500		42.8	43.9	47.1	48.4	49.7	49.6	47.8	46.6	44.2	34.7						
3150		40.5	42.1	44.6	46.7	49.4	49.4	49.5	47.2	43.3	35.5						
4000		39.5	41.9	45.2	47.2	50.0	50.6	51.7	50.4	43.2	34.4						
5000		39.2	41.6	46.2	49.2	51.2	53.7	56.1	52.7	44.3	34.4						
6300		41.3	43.3	45.7	48.7	52.0	55.5	58.3	55.5	48.5	35.7						
8000		43.2	42.8	46.6	49.8	52.4	55.2	56.0	55.7	48.0	34.2						
10000		38.8	42.3	46.9	49.7	52.7	55.1	56.0	55.2	45.2	31.3						
12500		40.3	45.3	51.8	54.7	56.2	56.6	56.7	54.6	43.1	27.5						
16000		34.5	40.9	48.1	51.6	52.2	52.1	53.8	47.1	34.3	16.1						
20000		25.1	30.3	37.4	40.6	43.2	45.1	44.6	41.8	26.5	3.9						
25000		15.5	21.2	28.0	31.5	34.1	34.8	34.5	29.3	12.1							
31500		2.8	9.4	17.4	20.7	22.6	22.6	20.4	12.9								
40000					3.0	4.8	4.0										
50000																	
63000																	
80000																	
OVERALL CALCULATED		59.4	60.9	62.3	63.9	65.3	66.5	66.9	66.0	62.3	56.8						
PNLB		67.9	69.7	72.2	73.7	75.8	77.8	78.6	77.6	72.3	64.3						

PAGE 1 FULL SCALE DATA REPETITION PROGRAM PREC. DATE = MONTH 3 DAY 28 HR. 12.0

MODEL SOUND PRESSURE LEVELS (59. MIC. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS):

FREQ.	59. (1.03)	71. (1.24)	83. (1.45)	95. (1.66)	107. (1.87)	119. (2.08)	131. (2.29)	143. (2.50)	155. (2.71)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
50																	
63																	
RADIAL 17. FT. 90																	
(5. FT	100	71.6	72.9	71.4	70.9	71.4	71.4	72.4	75.7	80.3	84.1						109.5
VEHICLE R=55	125	73.5	73.9	73.7	73.6	74.4	74.4	77.2	78.5	80.8	83.1						111.9
CONFIG 75=A	160	72.4	72.5	72.7	73.1	73.2	75.0	77.2	79.5	81.6	83.4						110.9
LOC SCHENECTADY	200	69.9	71.4	72.7	74.1	75.9	77.1	78.1	80.5	83.1	84.9						112.1
DATE 1/22/75	250	74.9	76.4	76.4	77.9	77.6	79.1	79.6	80.7	82.3	83.3						112.6
RUN 63/3	315	76.1	76.6	76.4	77.4	77.7	78.1	78.9	80.0	81.6	83.1						112.5
TAPE	400	73.6	74.1	74.9	75.1	76.2	77.4	78.1	79.0	80.8	81.8						111.2
BAR 30.2 HG	500	71.6	72.4	72.9	74.4	75.9	77.4	78.2	80.2	80.8	80.9						111.0
(01957. N/M2)	630	72.6	74.6	75.9	76.9	78.4	80.4	81.4	81.5	82.8	80.9						113.0
TAT 44. DEG F	800	73.9	74.9	75.3	77.1	79.7	80.1	80.9	81.7	81.6	79.8						112.8
(279. DEG K)	1000	71.4	73.1	74.4	75.1	77.2	79.8	79.9	81.7	81.1	78.9						111.9
TWCT 39. DEG F	1250	72.7	72.1	73.5	74.2	76.5	78.3	79.9	81.0	80.9	78.4						111.4
(277. DEG K)	1600	70.7	72.4	73.5	74.2	75.2	76.8	77.4	77.7	77.9	76.4						109.6
HACT 40.80 LB/M3	2000	70.2	71.4	73.1	74.0	75.8	76.8	77.1	77.5	77.1	75.9						109.2
(.03480 KG/M3)	2500	70.2	71.9	73.9	75.8	76.5	76.6	76.4	76.7	76.9	74.9						109.5
NFA 7042. RPM	3150	69.0	69.9	71.6	73.5	76.0	77.3	78.6	79.7	79.9	73.9						109.3
(737. RAD/SEC)	4000	68.9	70.3	72.4	74.3	77.5	79.0	80.5	81.2	77.4	74.3						111.1
NFK 7146. RPM	5000	68.7	70.7	72.1	74.7	77.9	81.9	84.7	82.4	77.3	73.7						113.2
(748. RAD/SEC)	6300	69.5	71.2	74.0	76.4	79.7	81.7	84.3	87.4	82.5	76.3						115.3
NFD 8423. RPM	8000	71.9	72.8	75.7	78.5	81.1	85.2	87.2	89.3	84.2	77.9						117.7
(924. RAD/SEC)	10000	70.5	73.1	76.3	79.4	83.2	85.7	88.3	89.8	83.5	77.9						118.5
NO. OF BLADES 15	12500	73.8	76.9	81.6	84.8	88.4	89.6	92.1	91.8	85.9	81.3						122.2
FAN TIP SPEED	16000	71.2	75.3	80.1	83.8	86.3	88.2	90.7	90.1	83.7	79.2						120.9
815. FT/SEC	20000	70.1	74.3	78.8	82.1	85.0	88.2	90.8	91.6	84.8	79.8						121.6
	25000	69.7	73.8	78.8	82.2	83.3	86.0	89.1	89.7	83.8	78.8						120.4
	31500	67.9	71.1	76.2	79.3	81.9	84.5	86.6	88.8	81.6	76.9						119.5
	40000	65.7	69.1	73.1	76.3	79.2	81.8	83.4	84.3	78.6	68.2						117.7
	50000	65.3	67.5	69.3	72.1	74.5	76.0	78.1	79.0	74.8	65.9						114.9
	63000	65.8	67.8	66.2	67.7	70.3	72.0	71.0	72.2	69.2	64.0						112.1
	80000	65.2	70.7	67.7	67.7	68.8	68.8	67.9	67.3	67.0	65.5						114.8
OVERALL MEASURED																	
OVERALL CALCULATED		66.6	68.3	90.2	92.5	95.0	97.1	99.3	100.1	90.1	84.4						130.7
		95.9	97.4	99.8	100.6	102.8	105.1	107.0	108.4	105.6	102.5						

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 28 HR. 12.0

MODEL SUCTION PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	66. (1.15)	71. (1.24)	86. (1.50)	91. (1.59)	104. (1.82)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 230. FT.	80																	
(69.96 M)	100	48.9	50.8	49.7	49.3	49.7	49.2	49.3	51.3	53.8	54.9							
VEHICLE B-65	125	55.8	57.7	54.9	54.8	52.6	52.1	54.8	53.9	54.2	52.9							
CONFIG 75-A	160	49.5	50.4	50.8	51.4	51.3	47.2	53.9	54.8	54.8	52.9							
LOC SCHENECTADY	200	45.9	49.1	50.7	52.3	53.9	54.7	55.8	55.7	56.1	53.9							
DATE 1/22/75	250	51.8	54.0	54.4	55.8	55.6	56.6	56.2	55.8	55.2	52.5							
RUN 63/7	315	53.6	54.1	54.3	55.2	55.5	55.5	55.4	55.0	54.3	52.0							
TAPE	400	50.4	51.6	52.7	53.1	53.9	54.6	54.5	53.9	53.4	50.5							
BAR 30.2 HG	500	48.3	49.7	50.7	52.5	53.6	54.5	54.4	55.0	53.3	49.3							
(31957. N/M2)	630	49.3	51.3	53.6	54.7	56.0	57.7	57.5	58.1	54.3	49.0							
TAMB 44. DEG F	800	50.3	52.3	53.5	54.8	56.2	57.0	56.9	56.2	53.6	47.5							
(280. DEG K)	1000	47.3	50.1	51.8	52.9	54.5	55.7	55.8	56.0	52.6	46.4							
TACT 39. DEG F	1250	46.7	49.0	50.8	52.1	53.7	55.0	55.6	55.1	52.4	45.5							
(277. DEG K)	1600	46.6	49.0	50.6	51.4	53.3	53.3	52.0	51.6	49.2	43.1							
HACT 4.60 GM/MB	2000	45.9	47.8	50.0	51.0	52.6	53.1	52.4	51.1	46.1	42.1							
(.00480 KG/M3)	2500	45.7	48.2	50.6	52.4	53.2	52.7	51.4	52.1	47.5	40.7							
NFA 7242. RPM	3150	44.2	46.8	48.1	50.5	52.4	53.1	51.3	52.7	46.1	34.9							
(737. RAD/SEC)	4000	43.7	45.8	48.4	50.9	53.5	54.3	54.2	53.6	46.8	36.3							
NFK 7146. RPM	5000	43.1	45.5	47.9	50.7	53.7	57.0	58.7	54.5	46.3	37.1							
(748. RAD/SEC)	6300	43.1	44.8	49.1	51.6	54.7	56.0	57.4	58.5	50.3	37.8							
NFD 8023. RPM	8000	43.3	46.2	49.7	52.7	55.0	56.4	59.1	56.8	50.0	36.6							
(824. RAD/SEC)	10000	41.2	44.9	49.3	52.2	55.6	57.3	58.3	57.4	46.6	32.6							
NO. OF BLADES 15	12500	41.9	46.4	51.9	55.3	58.5	59.8	59.5	56.2	45.1	30.4							
FAN TIP SPEED	16000	35.2	41.0	46.7	50.6	52.8	53.5	53.8	49.5	36.5	18.6							
615. FT/SEC	20000	28.7	34.9	40.5	44.3	46.6	48.3	48.2	44.2	29.0	6.0							
	25000	19.5	25.2	31.7	35.6	38.1	38.9	38.4	32.8	15.2								
	31500	7.3	13.9	21.0	24.7	26.4	26.7	24.1	17.3									
	40000			2.9	7.0	8.5	8.1	3.2										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		52.3	54.2	55.1	56.4	58.0	59.1	59.5	58.8	55.7	52.3							
FROM		71.1	73.4	75.4	77.1	78.9	80.5	81.2	80.5	75.0	68.0							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 28 YR. 12.0

MODEL SOUND PRESSURE LEVELS (50. DEG. TO 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.75)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	71.4	72.4	72.2	73.4	74.4	74.6	75.2	79.2	83.6	87.6								112.6
VEHICLE PASS	125	72.4	73.4	74.7	77.4	77.9	78.9	80.9	82.9	84.6	84.9								114.4
CONFIG 75-8	150	73.4	75.6	76.2	77.2	76.7	77.6	80.2	82.5	85.3	87.1								114.3
LCC SCHNEECTATY	200	72.6	73.9	75.4	77.1	79.5	83.1	81.9	83.7	84.3	88.6								115.5
DATE 1/22/75	250	73.6	81.4	81.9	82.1	83.1	84.1	85.4	86.8	88.1	87.6								118.8
RUN 63/4	315	78.8	76.6	79.9	80.1	80.9	81.3	82.6	83.5	85.1	86.8								115.9
TAPE	400	76.5	77.5	78.2	79.4	79.2	80.4	81.4	83.2	84.8	85.6								114.8
BAR 30.2 HG	500	74.6	75.9	76.9	77.5	78.9	80.9	81.9	83.2	84.3	84.8								114.4
(81957. N/M2)	630	75.5	77.4	78.7	79.9	81.2	82.9	84.2	84.7	85.1	84.1								119.9
TEMP 44. DEG F	800	76.6	77.2	77.4	79.9	81.7	82.6	83.6	84.0	84.8	83.9								119.7
(280. DEG K)	1000	74.6	75.9	77.4	78.6	80.4	81.6	82.9	84.2	83.6	82.6								118.7
T.CT 39. DEG F	1250	74.2	75.6	76.7	77.9	79.7	81.1	82.4	83.7	83.1	81.6								118.2
(277. DEG K)	1600	73.4	74.9	76.3	76.7	78.7	79.3	80.1	81.2	80.9	79.9								112.4
HACT 4.93 GM/M3	2000	74.5	75.4	77.3	78.5	80.3	80.8	81.6	83.5	81.9	79.9								113.8
(.00480 KG/M3)	2500	73.7	75.6	77.1	79.1	80.3	80.6	81.1	83.0	80.2	78.8								112.4
RFA 7420. RPM	3150	71.5	72.9	74.9	76.3	78.0	78.0	78.8	82.0	78.9	77.1								111.7
(820. RAD/SEC)	4000	72.4	74.3	75.9	78.5	81.0	82.0	84.5	84.9	81.4	78.3								114.9
RFT 7845. RPM	5000	73.9	73.5	75.1	77.7	79.9	82.4	84.7	84.6	79.6	76.5								114.5
(832. RAD/SEC)	6300	72.7	75.2	77.5	79.4	82.9	85.9	88.3	90.1	83.8	78.3								118.8
RFD 8827. RPM	8000	73.7	75.5	78.2	81.1	85.1	88.9	90.5	92.0	85.7	79.8								120.8
(924. RAD/SEC)	10000	73.3	75.8	79.3	81.9	85.4	88.7	90.5	92.1	85.3	79.3								120.9
NO. OF BLADES 15	12500	74.8	77.9	81.9	85.5	88.6	91.8	94.1	94.3	87.1	81.8								123.8
FAN TIP SPEED	15000	73.5	77.6	81.6	85.8	89.5	93.9	93.2	92.6	85.5	80.3								123.0
883. FT/SEC	20000	73.9	78.4	82.5	86.6	88.7	91.9	94.3	94.6	87.3	81.8								125.8
	25000	72.5	76.3	81.1	84.5	87.1	90.8	93.1	93.4	86.8	81.9								124.4
	31500	71.1	75.9	80.2	83.3	86.3	89.3	91.3	91.5	84.4	78.2								123.7
	40000	68.9	73.3	77.1	80.6	83.0	85.5	87.4	88.3	81.5	73.2								121.6
	50000	64.3	71.6	72.6	76.1	79.6	82.0	82.1	83.8	78.8	68.6								118.8
	63000	65.5	68.8	67.7	70.2	73.1	75.6	74.5	76.8	71.2	65.3								115.8
	80000	64.2	70.7	67.7	68.2	68.6	69.5	68.6	68.6	67.2	65.5								115.2
OVERALL MEASURED																			
OVERALL CALCULATED		80.1	91.0	93.1	95.3	97.7	100.1	102.4	103.1	99.8	97.9								133.8
	PNLM	99.3	108.7	102.5	103.9	106.1	108.0	109.9	111.4	108.1	106.1								

ORIGINAL PAGE OF POOR QUALITY

PROG. DATE = MONTH 3 DAY 28 HR. 12.0

OVERALL SOUND PRESSURE LEVELS (SPL, DEG. F, 70 PERCENT REL. HUM., DAY)
AZIMUTH ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	63. (1.10)	74. (1.29)	85. (1.48)	96. (1.68)	107. (1.87)	118. (2.06)	129. (2.25)	140. (2.44)	151. (2.64)	162. (2.83)	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.
63																	
80																	
100	47.7	50.3	50.5	51.0	50.7	50.1	52.1	54.4	57.3	57.5							
125	54.5	55.2	54.9	55.7	56.1	56.6	57.8	57.7	57.9	56.6							
160	53.8	53.4	54.3	54.1	54.3	54.2	56.0	57.8	58.5	56.6							
200	49.6	51.6	53.5	55.3	57.7	57.7	58.6	59.6	59.4	57.9							
250	54.5	53.1	59.2	60.2	61.1	61.6	62.0	61.1	61.0	56.7							
315	55.7	57.1	57.8	58.9	58.8	57.7	59.1	56.5	57.8	55.8							
400	53.4	55.1	56.0	56.1	56.2	57.6	57.8	58.1	57.4	54.3							
500	51.7	53.2	54.7	55.5	56.6	55.0	56.2	56.0	56.8	53.0							
630	52.2	54.6	56.3	57.7	58.5	59.9	60.3	59.4	57.3	52.3							
800	53.0	55.3	57.0	57.6	59.2	59.5	59.7	58.4	56.9	51.7							
1000	50.9	52.8	54.8	57.2	57.8	58.4	58.8	58.5	55.4	50.1							
1250	50.2	52.5	54.0	56.3	56.9	57.8	58.1	57.8	54.7	48.9							
1600	49.3	51.5	53.4	55.0	55.8	55.6	55.6	55.1	52.2	46.6							
2000	50.1	51.8	54.2	55.5	57.1	57.1	56.9	57.1	52.8	46.1							
2500	49.2	51.9	53.8	56.9	56.9	56.7	56.2	56.4	50.8	44.7							
3150	46.7	48.6	51.3	53.4	55.4	55.8	53.6	55.0	49.1	42.2							
4000	47.2	49.3	52.9	54.7	57.0	57.3	55.8	57.3	50.8	42.3							
5000	48.7	48.8	50.9	53.7	55.7	57.5	56.7	56.7	48.6	39.9							
6300	46.4	49.9	52.6	54.4	57.9	60.3	61.4	61.2	51.5	39.9							
8000	46.1	48.9	52.2	55.2	59.0	61.2	62.3	61.6	51.5	38.4							
10000	47.4	47.4	51.8	54.8	57.8	60.3	60.5	59.6	49.4	34.1							
12500	48.9	47.4	52.1	56.0	58.8	59.8	61.5	58.7	46.3	30.6							
16000	37.5	43.2	48.2	51.9	54.0	55.3	56.3	52.8	38.2	19.9							
20000	32.4	39.2	44.3	47.8	50.4	52.1	51.7	47.2	31.5	9.8							
25000	23.3	29.7	36.0	39.8	41.8	43.7	42.4	36.6	18.9								
31500	10.5	18.7	25.0	28.0	30.9	31.5	28.8	20.8									
40000		0.5	8.9	11.5	12.6	11.8	7.2										
50000																	
63000																	
80000																	
OVERALL CALCULATED	64.7	66.7	68.2	69.4	71.1	72.0	72.6	72.0	69.3	66.1							
DNDR	74.2	76.7	78.7	80.4	82.3	83.2	83.9	83.6	78.0	71.8							

SIDELINE 200. FT. (60.96 M)
VEHICLE R-65
CONFIG 75-8
LOC SCHENECTADY
DATE 1/22/75
RUN 63/4
TAPE
BAR 30.2 HG (01957. N/M2)
TAM 44. DEG F (280. DEG K)
TDT 39. DEG F (277. DEG K)
HACT 4.48 GM/M3 (.00485 KG/M3)
NFA 7429. RPM (820. RAD/SEC)
NFC 7945. RPM (832. RAD/SEC)
NF3 8823. RPM (924. RAD/SEC)
NO. OF BLADES 18
FAN TIP SPEED 683. FT/SEC

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 1 FULL SCALE DATA ARTIFICIAL PROGRAM

PAGE. DATE = MONTH 3 DAY 28 HR. 12.0

TOTAL SOUND PRESSURE LEVELS (SPL, DB RE. 20 MICRO PASCALS, OVERALL)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	40. (.70)	70. (1.22)	80. (1.40)	90. (1.57)	100. (1.75)	110. (1.92)	120. (2.09)	130. (2.27)	140. (2.44)	150. (2.62)	0.	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
80																		
100	71.1	72.6	72.7	72.9	73.2	74.1	75.2	79.2	84.1	87.1								112.4
125	77.1	77.1	76.4	76.9	77.7	78.0	80.4	82.0	84.3	87.1								114.3
160	75.1	75.4	75.5	76.1	76.4	78.6	79.9	82.5	84.6	87.1								114.1
200	73.6	74.1	74.7	74.9	78.4	80.1	81.9	83.7	86.6	88.1								115.4
250	73.4	81.4	81.9	82.4	83.4	84.3	85.9	86.0	87.6	87.9								118.1
315	77.1	79.6	79.9	80.1	80.9	81.6	82.1	83.5	85.3	86.8								115.9
400	76.9	77.1	77.9	78.4	79.4	80.4	81.1	82.7	84.6	85.6								114.6
500	76.3	75.4	75.9	77.4	79.2	80.6	81.9	83.0	84.3	84.4								114.2
630	75.4	76.6	78.4	79.9	81.2	83.1	83.7	84.5	85.1	84.4								115.8
800	76.2	77.6	79.2	79.4	81.2	82.8	83.6	84.0	84.3	83.9								115.6
1000	74.6	75.9	76.9	78.6	80.4	81.6	83.1	84.0	83.8	82.1								114.7
1250	74.2	75.4	76.2	77.9	79.2	80.8	82.1	83.5	82.9	82.1								114.0
1600	73.4	74.6	76.0	77.3	78.5	79.6	79.6	80.5	80.9	80.1								112.2
2000	73.7	75.4	76.8	78.7	80.0	80.8	81.6	82.7	81.4	80.1								113.6
2500	73.7	75.1	77.4	78.9	79.8	80.3	80.6	82.7	80.2	78.6								113.2
3150	74.7	73.1	74.9	77.3	78.3	78.8	78.8	81.7	79.2	76.6								111.7
4000	73.2	74.1	76.4	78.5	81.2	82.7	84.8	84.7	81.9	78.8								115.0
5000	73.9	73.0	74.9	78.0	80.2	82.4	84.7	84.1	79.8	76.7								114.4
6300	73.7	75.2	77.0	79.9	82.7	85.7	89.3	90.1	83.8	78.3								116.4
8000	73.4	75.3	78.2	81.1	84.3	87.5	90.7	92.0	85.2	79.9								120.4
10000	73.3	75.6	78.8	81.9	85.4	89.0	90.8	92.1	85.0	79.8								121.0
12500	71.9	73.2	81.0	85.3	88.4	90.9	93.8	94.1	86.0	81.8								123.6
16000	74.0	77.8	81.3	84.8	87.6	90.4	92.7	92.1	85.7	80.8								122.8
20000	74.1	79.3	82.8	85.0	89.2	92.2	94.3	94.1	87.8	82.0								125.0
25000	72.5	76.3	80.8	84.5	87.6	90.5	92.8	93.4	86.8	81.0								124.3
31500	71.6	75.3	79.7	83.3	86.0	89.0	91.1	91.8	84.6	77.9								123.4
40000	64.4	73.1	76.5	80.3	83.7	86.0	87.1	87.8	82.3	73.0								121.5
50000	66.6	70.5	72.8	76.1	78.8	82.0	81.8	82.7	77.8	68.9								118.7
63000	65.5	68.5	67.7	70.2	72.4	75.3	74.8	75.5	71.2	65.3								114.8
80000	60.4	70.7	67.7	67.9	68.8	69.3	68.4	69.1	67.5	65.5								115.1
OVERALL MEASURED	89.1	90.9	92.9	95.2	97.7	100.2	102.3	102.8	98.9	97.9								138.7
OVERALL CALCULATED	99.0	100.4	102.1	104.0	106.1	108.0	109.9	111.3	108.0	106.2								

FULL SCALE DATA [illegible]

FIRC. DATE = MONTH 3 DAY 28 HR. 12.0

[illegible] SOUND PRESSURE LEVELS (SPL, LIN. RE 20 MICRO. PAV)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	45. (.79)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.11)	131. (2.29)	141. (2.46)	151. (2.63)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	50																	
	63																	
SIREN LINE 200. FT.	80																	
(60.96 M)	100	53.6	50.6	51.0	51.3	52.4	51.9	52.1	54.8	57.5	57.0							
VEHICLE FOSS	125	54.7	55.0	54.6	57.2	55.8	55.3	57.3	57.4	57.7	54.9							
CONFIG 75-R	160	52.2	53.2	54.1	54.4	54.5	54.2	54.7	57.8	57.8	54.6							
LOC SCHENECTADY	200	49.6	51.8	52.7	55.1	53.4	53.7	54.8	56.0	56.6	57.4							
DATE 1/22/75	250	54.3	52.0	59.9	60.5	61.3	61.8	62.5	61.1	60.5	57.0							
RUN 63/5	315	54.0	57.1	57.8	58.2	58.9	59.0	58.6	58.5	58.1	55.5							
TAPE	400	51.5	54.6	55.7	56.3	57.2	57.6	57.5	57.6	57.2	54.3							
BAR 30.2 MG	500	51.3	52.7	53.7	55.2	56.9	57.6	58.2	57.7	56.8	52.8							
(1957. N/M2)	630	51.9	53.9	56.1	57.7	58.5	60.2	59.8	59.1	57.3	52.5							
TAMB 44. DEG F	800	53.3	54.7	56.7	57.0	58.7	59.8	56.7	58.4	56.4	51.7							
(280. DEG K)	1000	55.6	52.8	54.3	56.2	57.4	59.7	59.0	58.3	55.7	49.6							
TDEW 39. DEG F	1250	50.2	52.2	53.5	55.3	56.4	57.5	57.8	57.6	54.4	49.3							
(277. DEG K)	1600	49.3	51.3	53.1	54.2	55.5	56.1	55.1	54.4	52.2	46.5							
HACT 4.4(GM/M3	2000	49.4	51.8	53.7	55.8	56.9	57.1	54.9	56.4	52.3	46.4							
[.00484 KG/M3]	2500	49.7	51.4	54.1	55.4	56.4	56.4	55.7	56.1	50.4	44.4							
NFA 7839. RPM	3150	46.9	49.1	51.3	53.9	55.4	56.1	53.6	54.7	49.3	41.7							
(821. RAD/SEC)	4000	46.9	49.6	52.4	54.7	57.2	58.1	58.9	57.1	51.3	42.8							
NFK 7955. RPM	5000	45.3	48.3	50.6	53.9	55.9	57.5	58.7	56.2	48.8	40.1							
(833. RAD/SEC)	6300	46.4	49.8	52.1	55.1	57.7	60.0	61.4	61.2	51.5	39.8							
NFC 8823. RPM	8000	48.8	48.7	52.2	57.2	59.3	60.7	62.6	61.6	51.0	38.6							
(924. RAD/SEC)	10000	43.9	47.4	51.3	54.5	57.8	60.6	60.8	59.6	48.1	34.6							
NO. OF BLADES 18	12500	42.4	47.7	52.1	55.4	59.5	60.1	61.3	58.5	46.1	30.9							
FAN TIP SPEED	16000	36.0	43.5	47.9	51.6	54.0	55.0	55.8	51.5	38.5	20.4							
664. FT/SEC	20000	32.7	38.9	44.5	48.3	50.9	52.3	51.7	46.7	32.0	9.3							
	25000	23.3	33.2	35.7	40.8	42.3	43.4	42.2	36.6	18.9								
	31500	11.0	18.7	24.5	28.7	35.6	31.2	28.6	20.3									
	40000		0.3	6.7	11.0	12.3	12.3	7.0										
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		64.6	66.5	68.0	69.4	71.0	72.1	72.6	71.8	69.1	66.0							
	PNLTM	74.2	76.4	78.6	80.4	82.3	83.2	83.9	83.5	78.1	71.7							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PHASE RATE = NORTH 3 DAY 20 HR. 12.0

MODEL SOUND PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY1

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		62. (1.08)	72. (1.24)	82. (1.41)	92. (1.58)	102. (1.76)	112. (1.94)	122. (2.13)	132. (2.32)	142. (2.52)	152. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	PRESS											0.	0.	0.	0.	0.	0.	0.	
	50																		
	63																		
RADIAL 17. FT.	80																		
1 Sc RI	100	78.9	81.2	82.7	82.3	81.4	78.0	72.7	71.7	75.8	77.7								113.4
VEHICLE RUNS	125	69.7	71.7	68.0	72.9	69.4	67.8	71.5	72.7	73.0	75.2								104.9
CONFIG 75-A	160	65.9	65.9	67.9	66.9	67.4	69.3	70.2	72.0	73.3	75.9								103.6
LOC SCHENECTADY	200	64.2	64.1	64.5	67.9	69.9	70.8	72.0	73.4	75.9	78.9								105.1
DATE 1/22/75	250	69.4	71.4	70.4	70.5	71.1	72.5	73.2	73.4	74.0	74.9								105.8
RUN 6304	315	70.2	71.4	70.3	70.1	71.4	71.8	72.2	72.9	73.8	74.1								105.9
TYPE	400	67.7	68.1	68.7	68.7	70.1	70.8	71.5	71.9	73.0	74.1								104.3
BAR 30.2 HG	500	65.2	66.4	67.5	68.1	70.2	71.3	72.2	73.2	73.8	73.2								104.4
(101957. N/M2)	630	67.4	68.9	71.0	72.1	73.7	74.8	75.8	76.0	76.5	74.2								107.4
TAMB 44. DEG F	800	67.6	69.1	71.3	71.8	73.7	75.9	75.7	76.4	76.8	73.2								107.5
(280. DEG K)	1000	65.7	67.4	69.8	70.4	72.4	74.5	75.5	76.9	76.8	73.2								107.1
TWET 39. DEG F	1250	57.5	59.1	71.4	72.1	74.5	76.0	79.0	80.2	81.3	74.7								110.2
(277. DEG K)	1600	64.2	64.4	68.1	68.4	71.0	72.0	73.5	73.2	74.4	70.2								104.8
HACT 4.89 GM/M3	2000	63.2	64.4	66.1	66.2	69.2	69.2	69.5	70.1	69.2									101.7
(.00489 KG/M3)	2500	62.9	64.9	64.9	65.4	67.3	68.5	69.4	71.2	71.6	67.1								102.6
RPA 5496. RPM	3150	61.2	62.6	63.9	64.2	67.3	69.4	69.9	70.7	69.4	65.1								101.5
(575. RAD/SEC)	4000	63.5	64.3	66.7	66.4	71.5	73.4	76.4	76.9	73.5	68.6								106.3
RPM 5574. RPM	5000	61.7	63.8	65.4	66.4	71.7	74.8	78.3	77.1	73.5	68.5								107.1
(584. RAD/SEC)	6300	64.3	65.7	68.1	71.3	74.2	74.8	78.4	86.6	79.2	71.8								109.9
RPM 8823. RPM	8000	69.5	66.5	73.3	73.2	75.8	78.8	81.1	82.7	80.2	73.9								111.7
(924. RAD/SEC)	10000	71.1	72.8	76.9	80.1	83.4	85.9	85.4	87.6	86.4	83.4								117.9
NO. OF BLADES 16	12500	66.8	69.7	75.2	78.5	81.1	83.3	84.9	86.1	81.6	79.8								114.8
FAN TIP SPEED	16000	64.9	67.4	72.1	74.2	79.5	81.4	83.5	84.9	79.8	73.8								114.5
850. FT/SEC	20000	63.2	65.3	70.3	73.6	76.7	79.3	81.9	84.3	78.9	71.8								113.0
	25000	62.9	63.8	68.1	71.7	74.3	74.7	79.4	86.9	76.5	69.8								111.4
	31500	61.4	62.8	64.8	71.6	74.2	74.0	77.9	88.2	75.4	67.7								111.5
	40000	58.7	60.8	64.9	68.5	71.2	73.6	74.5	76.3	72.5	62.8								108.5
	50000	58.6	61.3	61.6	64.1	66.7	69.4	69.4	71.2	68.2	59.7								106.9
	63000	57.6	60.3	59.3	59.8	61.9	63.5	62.6	64.7	61.9	57.3								104.1
	80000	63.2	61.3	60.7	58.4	59.2	59.7	59.0	59.3	57.7	56.8								106.4
OVERALL MEASURED																			
OVERALL CALCULATED		82.8	84.6	86.6	88.1	88.9	91.4	92.9	94.3	92.1	88.9								124.9
	PWLW	99.4	91.9	94.3	94.4	98.9	100.6	101.5	102.7	101.6	98.9								

ORIGINAL PAGE IS OF POOR QUALITY

PAGE 7 FULL SCALE DATA PRINCETON PROBE

PREC. DATE = MONTH 3 DAY 28 HR. 12.0

TOTAL SCAN PRESSURE LEVELS 150. DEG. F. 70 PERCENT REL. HUM. DAY

ANGLES FROM INLET IN DEGREES (AND RADIANS)

		0.	7.	14.	21.	171.	111.	124.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.
	FREQ.	(1.57)	(1.22)	(1.41)	(1.54)	(1.75)	(1.94)	(2.13)	(2.32)	(2.52)	(2.73)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
	50																	
	60																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	54.2	59.1	61.0	60.7	59.7	55.8	49.7	47.3	49.2	47.6							
VEHICLE S-65	125	47.9	48.5	54.2	56.9	61.6	65.5	64.3	60.2	60.3	60.9							
CONFIG 75-8	160	43.2	43.7	45.1	46.1	45.5	45.9	47.8	47.3	46.4	45.4							
LOC SCHENECTADY	200	41.2	42.8	44.5	44.9	47.9	48.3	48.7	48.7	48.5	46.2							
DATE 1/22/75	250	45.3	44.8	45.4	46.8	49.1	50.0	48.8	48.6	46.9	44.0							
RUN 03/5	315	47.5	47.9	46.4	46.3	47.5	47.1	46.7	46.0	46.5	43.1							
TAPE	400	44.4	45.6	46.3	46.2	47.9	48.8	47.9	46.8	45.6	42.8							
BAR 29.2 HG	500	41.8	43.7	45.2	45.2	47.9	48.4	48.5	47.0	46.2	41.6							
(81057. N/M2)	630	44.0	46.1	48.5	49.8	51.3	51.6	51.9	50.6	48.5	42.3							
TAMB 44. DEG F	800	41.3	44.2	46.5	48.5	51.2	52.2	51.7	51.9	48.1	41.3							
(280. DEG K)	1000	41.9	44.8	46.4	48.1	49.8	51.3	51.3	51.2	48.6	39.7							
TAPT 39. DEG F	1250	43.5	46.8	48.1	49.5	51.7	52.7	54.7	54.3	52.9	41.5							
(277. DEG K)	1600	42.1	47.9	49.2	49.9	49.9	49.5	49.0	47.1	45.8	36.9							
MACH 4.83 SM/HR	2000	39.7	46.8	47.3	46.5	45.1	45.5	44.5	43.1	41.8	34.4							
(.00483 MG/M3)	2500	39.5	41.2	43.6	45.1	46.7	45.8	44.5	45.1	42.2	33.8							
NFA 5425. RPM	3150	35.2	38.6	42.8	45.9	45.4	45.1	43.7	43.7	39.7	30.2							
(575. RAD/SEC)	4000	33.2	39.9	42.7	44.6	47.4	48.7	50.6	49.3	43.0	32.8							
NFK 5575. RPM	5000	36.1	39.1	41.2	44.3	47.4	49.9	52.3	49.2	42.5	31.9							
(584. RAD/SEC)	6300	37.7	40.3	43.1	46.5	49.2	50.9	52.5	51.7	46.9	33.4							
NFD 6823. RPM	8000	37.0	43.2	44.3	47.4	49.8	51.8	52.9	52.3	46.8	32.7							
(824. RAD/SEC)	10000	41.7	44.8	46.3	50.7	53.8	53.5	54.9	55.1	49.5	34.4							
NO. OF BLADES 15	12500	34.9	39.2	45.4	48.9	51.3	52.5	52.4	50.5	40.8	24.7							
FAN TIP SPEED	16000	24.8	33.5	38.7	43.1	45.0	45.7	46.8	44.2	32.6	13.2							
488. FT/SEC	20000	21.7	25.9	32.1	35.7	38.4	39.5	39.3	37.8	23.2								
	25000	12.8	16.5	23.0	27.8	29.1	29.6	28.8	24.1	8.6								
	31500		5.7	12.8	16.9	18.9	19.1	19.4	9.5									
	40000					BAR												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED	PNOW	58.3	61.5	63.3	64.8	64.6	64.6	64.4	63.5	60.5	55.1							
	PNOW	65.8	67.4	69.8	71.5	73.7	74.7	75.5	74.3	70.5	61.2							

FULL SCALE TAIL ROTOR TEST PROGRAM

PREC. DATE = MONTH 3 DAY 28 HR. 11.0

TUNNEL SOUND PRESSURE LEVELS (5% BRG. FO 78 REACTN SEL. NUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	PRESS	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
	90																		
	63																		
RADIAL 17. FT.	90																		
(5. M)	150	77.4	81.2	82.7	80.9	81.4	78.3	72.5	71.5	75.3	77.2								113.4
VEHICLE NOISE	120	69.4	73.5	67.1	75.9	77.9	67.3	72.8	71.5	72.5	74.9								104.8
CONFIG 79-8	168	65.9	69.3	66.7	66.3	66.6	67.8	69.7	72.8	73.3	75.4								103.4
LRC SCHEDULED	210	64.7	64.9	66.5	67.3	69.4	69.5	71.7	73.2	74.8	76.4								104.8
DATE 1/22/75	270	67.9	68.4	69.7	68.5	70.4	71.5	72.5	73.9	74.6	74.4								105.2
RUN 62/1	315	69.7	69.3	73.7	74.1	71.1	71.8	71.7	72.4	73.8	74.6								108.2
TAPE	420	67.9	67.6	70.0	69.3	69.9	71.6	71.5	72.2	72.5	73.4								104.4
PAR 30.2 IN HG	510	65.4	66.4	67.5	67.8	67.7	70.8	72.9	73.2	73.3	73.2								104.2
(8)857. KG/M2)	630	66.9	68.7	70.9	71.9	72.4	74.3	75.5	75.7	75.5	73.2								107.2
TAT 42. DEG F	840	68.4	68.9	71.7	71.9	73.4	71.8	75.5	75.4	75.3	72.9								106.9
(279. DEG K)	1050	65.3	66.9	68.5	69.4	71.7	73.5	74.7	76.2	76.3	71.7								108.4
T.C. 37. DEG F	1260	63.7	63.9	68.1	71.4	73.8	74.2	74.5	86.0	80.5	76.7								109.8
(276. DEG K)	1470	63.7	63.8	66.9	69.1	72.2	72.2	74.8	74.7	74.8	70.4								105.1
HACT 0.35 GM/M3	1680	63.3	64.4	65.6	66.7	68.8	68.5	69.5	70.7	71.6	68.2								101.9
(0.0435 KG/M3)	1890	64.9	65.6	67.2	68.4	73.8	78.8	71.5	75.2	74.1	69.4								104.6
MFA 5463. RPM	2100	61.8	63.1	65.2	66.7	69.8	69.7	70.7	73.7	72.8	67.1								102.2
(572. RAD/SEC)	2310	62.3	64.1	65.7	68.4	72.5	72.1	73.9	76.4	75.6	69.3								105.4
MFK 5555. RPM	2520	61.7	63.5	65.7	67.4	70.4	73.3	75.1	75.8	76.8	69.5								105.9
(582. RAD/SEC)	2730	64.9	66.8	68.9	71.3	74.9	77.1	79.9	81.1	78.2	72.1								110.2
MFT 8223. RPM	2940	69.3	68.6	71.4	73.8	77.6	79.2	81.9	83.8	80.7	74.2								112.4
(826. RAD/SEC)	3150	74.9	82.1	85.9	85.9	87.0	86.2	88.4	90.1	84.7	79.7								120.4
NO. OF BLADES 4	3360	76.6	82.2	87.5	88.5	89.9	89.3	90.2	91.9	85.4	80.6								122.7
FAR TIP SPEED	3570	68.6	71.8	76.2	78.5	82.9	84.7	86.5	86.7	81.2	75.1								117.2
677. FT/SEC	3780	65.5	67.4	72.6	75.6	79.3	81.6	84.9	86.9	80.7	74.1								116.1
	3990	62.9	64.9	69.8	71.9	75.5	77.9	80.4	81.8	76.6	70.5								112.3
	4200	61.6	64.8	68.1	71.1	74.4	76.1	78.6	79.9	75.6	67.9								111.8
	4410	65.2	61.1	64.4	67.5	71.8	73.8	74.8	76.8	72.8	63.1								109.6
	4620	59.5	61.2	60.8	63.7	66.9	69.5	69.4	71.1	67.1	58.4								100.8
	4830	57.7	60.8	59.8	58.1	62.1	63.2	69.4	64.2	61.4	57.4								103.9
	5040	64.9	60.3	59.8	58.4	59.3	59.8	58.1	58.9	57.1	54.3								100.2
OVERALL MEASURED																			
OVERALL CALCULATED		83.9	87.8	91.3	92.1	93.5	93.8	95.3	96.7	92.5	88.8								127.4
	PWSP	82.4	85.6	88.2	88.8	100.3	106.5	102.5	104.8	101.5	97.5								

FULL SCALE DATE ...

PROC. DATE = MONTH 3 DAY 28 HR. 11.0

...L SCALE PERCENT LEVELS (SEC. NO. FO 70 PERCENT DEL. NUM. DAY)

ANGLES FROM INLET TO WEDGES (AND RADIANS)

		63	71.	81.	91.	101.	111.	122.	133.	145.	156.	0.	0.	0.	0.	0.	0.	0.	0.
		(1.1)	(1.2)	(1.4)	(1.6)	(1.8)	(2.0)	(2.1)	(2.3)	(2.5)	(2.7)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)	(0.)
SPECIMEN 200. FT.		Hz																	
(60.96 M)	1Hz	54.7	50.1	61.0	60.7	53.7	50.1	49.4	47.9	48.7	47.1								
VEHICLE R-05	2Hz	49.4	48.7	47.2	50.4	46.1	45.0	48.8	46.9	45.8	44.7								
CONFIG 75-0	3Hz	43.0	43.7	44.0	47.1	43.4	45.4	46.5	47.3	46.4	44.9								
LCC SCHEDULED	4Hz	41.7	42.5	44.5	45.5	47.4	47.1	48.4	48.4	47.8	45.7								
DATE 1/22/75	5Hz	44.8	47.0	47.7	47.6	48.6	49.0	49.1	48.1	46.0	43.8								
RUN 0271	315	46.5	47.4	48.6	48.3	48.0	48.4	48.2	47.5	45.8	43.6								
TAPE	4Hz	44.7	45.1	47.4	47.8	47.7	48.3	47.8	47.1	45.1	42.1								
BAR 30.2 IN	5Hz	42.1	43.7	45.2	45.7	47.4	47.9	48.5	48.0	45.7	41.8								
(81957. N/M2)	6Hz	41.5	45.9	47.6	49.4	51.8	52.1	51.8	50.3	47.8	42.1								
TAMB 42. DEG F	7Hz	44.8	48.3	48.3	49.3	53.9	51.8	51.5	49.9	47.3	44.8								
(278. DEG K)	8Hz	42.2	43.9	45.9	47.1	49.8	50.3	50.6	50.5	48.1	39.2								
TWET 37. DEG F	9Hz	43.3	45.7	44.6	48.8	50.2	52.9	55.2	54.1	52.1	41.8								
(276. DEG K)	10Hz	39.8	42.3	43.0	45.4	47.3	49.7	49.5	48.6	46.1	37.2								
HACT 4.35 GM/M3	11Hz	37.9	40.9	42.5	43.7	44.9	44.8	44.8	44.4	42.5	34.4								
(.00435 KG/M3)	12Hz	33.5	41.9	43.0	47.3	46.7	48.1	48.5	48.8	45.7	35.2								
RPM 5483. RPM	13Hz	37.0	39.1	41.7	43.1	45.4	45.5	45.4	46.7	43.8	33.2								
(572. RAD/SEC)	14Hz	37.3	39.6	41.7	44.5	46.5	45.5	48.1	48.8	45.6	33.3								
RPC 5496. RPM	15Hz	36.2	38.8	41.5	43.6	46.2	48.4	49.8	47.7	45.8	32.9								
(582. RAD/SEC)	63Hz	38.4	41.3	43.8	46.2	50.9	51.5	53.8	52.2	48.8	35.7								
RPS 8423. RPM	80Hz	39.7	42.3	45.4	47.9	51.5	52.3	53.7	52.8	48.5	32.9								
T 924. RAD/SEC)	100Hz	47.5	51.9	50.6	54.5	56.4	57.8	58.4	57.6	47.8	36.5								
NO. OF BLADES 19	125Hz	44.7	51.7	57.7	58.9	60.1	64.5	57.6	56.3	44.5	29.7								
FAN TIP SPEED	160Hz	32.6	37.1	42.8	44.4	49.3	50.8	49.7	46.8	33.4	14.7								
459. FT/SEC	250Hz	24.8	29.0	34.4	37.7	40.9	41.8	42.4	38.5	25.8	1.4								
	315Hz	19.7	18.4	23.8	27.2	33.2	30.8	29.7	25.8	8.8									
	400Hz	1.8	6.9	13.8	14.6	19.8	18.3	16.1	9.2										
	500Hz					0.6													
	630Hz																		
	800Hz																		
OVERALL CALCULATED		58.6	62.4	65.2	65.7	66.3	65.3	65.4	64.4	60.3	54.8								
	PNdB	65.4	69.7	72.8	73.6	74.9	74.6	73.4	72.9	70.8	61.6								

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PREC. DATE = MONTH 3 DAY 28 NO. 11.0

[illegible] PRESSURE LEVELS (50. MRG. FO 70 PERCENT SEL. NUM. DAYS)
AVAILABLE FOR INPUT IN DEGREES (AND RADIANS)

	PREC.	0.	10.	20.	30.	40.	50.	60.	70.	80.	90.	100.	110.	120.	130.	140.	150.	160.	170.	180.	PAL
		0.	.17	.34	.52	.69	.87	1.05	1.22	1.40	1.57	1.75	1.92	2.10	2.27	2.44	2.62	2.79	2.97	3.14	
RADIAL 17. FT.		40																			
(5. MI	1P0	74.4	74.7	71.5	70.3	69.9	71.5	72.8	73.0	76.3	80.4										107.9
VEHICLE 0005	1P0	71.9	72.9	71.9	73.9	71.1	71.0	74.8	75.8	76.5	79.9										107.7
CC FIG 75-9	1P0	71.9	72.4	72.2	72.3	72.1	72.8	73.7	74.7	77.6	79.4										107.1
LOC SCHENECTADY	2P0	67.4	68.3	69.7	71.9	73.5	73.8	75.7	77.2	79.3	80.9										100.8
DATE 1/22/75	2P0	71.2	72.3	72.9	73.1	74.1	75.8	75.5	76.7	77.7	79.4										100.8
RUN 0272	3P0	73.4	73.9	73.5	73.5	74.1	74.5	75.0	76.2	77.9	79.9										100.7
TAPE	4P0	73.4	71.1	72.0	72.3	73.4	73.8	75.2	75.9	77.3	77.9										107.9
FAR 37.9 MS	5P0	69.4	67.6	70.2	71.1	72.3	74.5	75.5	76.7	77.8	76.9										107.7
(8165. FT/S)	6P0	69.3	71.7	73.5	74.5	74.2	77.0	78.0	76.2	78.8	77.4										110.2
TAPH 42. DEG F	7P0	71.7	72.1	73.2	73.4	75.9	77.3	77.5	78.4	78.0	76.2										109.7
(279. DEG K)	1P0	68.9	69.9	71.7	73.1	74.7	74.6	77.5	79.4	78.8	79.4										109.3
TACT 37. DEG F	1P0	67.7	69.1	71.1	73.4	74.2	74.5	77.7	79.2	78.8	79.4										109.2
(276. DEG K)	1P0	59.0	72.4	73.8	77.1	77.5	80.8	80.2	81.7	82.1	79.2										112.4
MACT 0.35 SM/MN	2P0	56.3	67.6	69.6	73.7	71.7	77.5	73.5	76.8	75.1	72.4										106.8
(.30435 MA/MN)	2P0	64.3	68.1	70.4	71.7	72.8	77.2	73.2	76.7	75.1	71.7										106.4
MFA 6210. RPM	3P0	66.3	67.9	69.5	71.5	74.8	74.7	75.7	81.8	77.1	77.8										108.7
(654. RAD/SEC)	4P0	68.3	67.1	69.4	71.4	73.7	73.9	74.4	79.7	76.3	71.8										106.2
MFK 6355. RPM	5P0	69.5	67.5	69.2	71.2	74.7	77.8	79.3	80.9	77.8	72.8										110.8
(665. RAD/SEC)	6P0	67.1	69.5	72.1	74.1	78.2	81.9	82.4	84.6	80.7	74.8										113.5
MFD 6429. RPM	7P0	73.5	71.6	74.8	77.3	80.9	83.4	85.1	86.3	82.7	76.2										115.8
(672. RAD/SEC)	1P0	74.4	73.4	76.9	79.8	83.3	85.7	86.1	87.8	83.2	77.2										117.3
NO. OF BLADES 15	1P0	75.6	48.8	44.7	47.8	83.5	89.3	98.7	90.1	84.4	79.9										122.2
FAR TIP SPEED	1P0	72.1	75.4	78.9	84.5	86.4	87.4	88.8	88.9	82.9	77.9										120.1
546. FT/SEC	2P0	66.5	72.9	77.6	80.1	83.3	84.1	84.2	90.4	83.5	77.1										119.8
	2P0	65.9	68.9	73.8	77.1	80.2	82.9	84.9	84.6	80.9	74.3										117.8
	3P0	61.8	67.7	72.1	75.4	78.4	80.8	83.4	84.7	79.8	71.8										116.1
	4P0	62.5	64.6	68.1	72.5	75.2	78.8	79.5	81.1	75.6	66.4										114.2
	5P0	63.2	62.9	64.8	69.8	70.9	74.0	74.1	75.1	71.1	62.4										110.8
	6P0	58.5	60.5	60.7	61.8	64.3	67.5	66.6	68.5	64.4	58.4										107.2
	7P0	65.0	60.8	60.8	58.0	63.6	60.0	60.1	61.2	58.8	57.0										107.0
OVERALL MEASURED																					
OVERALL CALCULATED		94.5	86.4	89.4	92.1	94.6	95.6	98.9	98.0	94.1	91.3										126.0
	PAL	93.2	84.7	86.5	88.4	139.9	103.2	134.2	106.2	103.8	100.1										

ORIGINAL PAGE IS
OF POOR QUALITY

PAGE 3 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 28 HR. 11.8

MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

SIDELINE 200. FT. (60.96 M)
VEHICLE F-15
CONFIG 75-9
LOC SCHENECTADY
DATE 1/22/75
RUN 62/2
TAPE
BAR 30.2 HG (101957. N/M2)
TAMB 62. DEG F (289. DEG K)
TDET 37. DEG F (276. DEG K)
HACT 4.35 GM/M3 (.00435 KG/M3)
NFA 6750. RPM (654. RAD/SEC)
NFK 6355. RPM (665. RAD/SEC)
NFD 8823. RPM (924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED 586. FT/SEC

FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.58)	101. (1.76)	111. (1.94)	122. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.
50																	
63																	
80																	
100	53.7	52.6	49.8	48.7	49.2	49.3	48.9	48.5	49.7	50.3							
125	48.4	50.7	49.2	51.6	49.3	48.7	50.8	50.4	49.8	49.7							
160	46.3	47.2	48.4	48.1	48.3	49.7	50.5	51.1	50.2	48.9							
200	44.4	46.6	47.8	49.5	51.7	51.3	52.4	52.4	52.3	50.2							
250	49.1	50.5	50.9	51.4	52.1	52.5	52.1	51.8	50.6	48.5							
315	49.3	51.1	51.4	51.6	52.3	51.9	51.5	51.2	50.0	47.8							
400	47.2	48.6	49.8	50.2	51.2	51.0	51.6	50.8	49.8	48.6							
500	45.1	47.0	48.0	48.9	50.6	51.7	51.8	51.5	49.4	45.3							
630	46.5	48.9	51.1	52.3	53.8	54.8	54.1	53.8	51.3	45.6							
800	48.1	49.2	50.8	51.5	53.4	54.2	53.5	52.9	50.1	44.0							
1000	45.2	46.9	49.1	50.6	52.8	52.8	53.3	53.7	50.6	42.9							
1250	43.8	46.0	48.3	49.9	51.4	53.2	53.4	53.3	50.4	42.6							
1600	44.9	47.0	50.7	54.4	56.5	56.5	55.7	55.6	53.3	42.9							
2000	41.2	44.1	46.5	47.7	48.6	48.8	48.8	49.6	46.0	38.7							
2500	42.3	44.4	47.2	48.6	49.4	48.3	48.3	50.1	45.7	37.0							
3150	41.5	43.9	45.9	48.1	50.4	50.5	50.4	54.0	47.2	37.7							
4000	40.0	42.6	45.5	47.6	49.7	49.3	50.9	52.1	45.7	35.6							
5000	39.9	43.1	45.0	47.1	50.4	52.9	53.3	53.0	46.8	36.2							
6300	40.7	44.0	47.2	49.3	53.2	56.2	55.8	55.7	48.5	36.2							
8000	41.9	45.0	48.6	51.9	54.8	56.6	57.0	55.9	48.5	34.9							
10000	41.0	45.2	49.4	52.5	55.4	57.3	56.9	55.1	46.3	32.0							
12500	43.7	49.5	55.0	58.2	60.8	58.5	58.1	54.5	43.5	28.9							
16000	36.1	41.1	47.5	51.4	52.8	52.7	51.9	48.2	35.7	17.5							
20000	27.0	33.5	39.4	42.2	44.9	46.3	45.6	43.0	27.7	4.4							
25000	15.7	22.4	27.9	32.4	35.0	35.6	34.2	29.7	13.0								
31500	4.0	10.6	17.0	21.1	23.0	23.1	20.8	13.9									
40000				3.2	4.8	5.0											
50000																	
63000																	
80000																	
OVERALL CALCULATED	59.7	61.4	63.1	65.0	66.9	67.2	67.1	66.6	62.9	58.7							
PNDB	68.1	70.5	72.6	74.8	76.8	76.3	76.2	76.4	73.7	69.3							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM — PROG. DATE = MONTH 3 DAY 28 HR. 11.9

TYPICAL SOUND REFERENCE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	63. (1.09)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	0.	PWL
	50																			
	63																			
RADIAL 17. FT.	80																			
(5. FT	100	71.9	73.4	71.4	70.9	71.9	71.6	72.7	76.0	80.8	83.9									109.8
VEHICLE PRES	125	71.6	72.6	72.7	73.1	74.4	73.9	77.4	78.5	80.8	83.1									112.0
COLFIG 75-9	160	71.9	72.1	72.7	73.1	72.9	75.1	76.4	79.0	81.8	83.4									110.7
LOC SCHENECTADY	200	70.1	71.6	72.4	74.1	74.1	76.9	78.9	80.5	82.8	84.8									112.1
DATE 1/22/75	250	74.4	75.3	76.1	77.3	77.4	77.8	78.9	80.7	82.6	83.8									112.7
RUN 62/3	315	75.9	76.6	76.4	76.3	77.4	77.8	78.9	79.7	81.8	83.1									112.4
TAPE	400	73.6	74.4	74.7	75.4	75.9	77.1	78.4	79.7	81.1	81.8									111.3
BAR 30.2 HG	500	71.4	72.4	73.2	74.4	76.2	77.4	78.7	79.7	81.3	80.4									111.0
(.01957. L/M2)	630	72.1	74.9	76.4	77.3	78.7	80.4	81.9	82.0	82.1	80.6									113.0
TAMB 42. DEG F	800	73.5	75.1	76.2	77.1	78.4	79.6	80.7	81.0	83.3	79.9									112.9
(279. DEG K)	1000	71.9	73.4	74.4	75.9	77.5	78.6	80.1	81.7	82.8	78.9									112.3
TSET 37. DEG F	1250	70.4	72.0	73.5	74.9	77.0	78.8	80.1	81.7	82.4	78.1									111.9
(276. DEG K)	1600	72.4	74.4	75.0	76.2	77.5	79.3	80.9	82.5	82.4	77.4									112.6
HACT 2.35 GM/M3	2000	71.2	72.9	73.8	75.1	76.5	77.8	79.1	81.5	82.6	76.4									111.6
(.00435 KG/M3)	2500.	70.9	71.6	73.9	75.9	76.0	75.3	77.1	80.5	80.9	75.6									110.4
NFA 7025. RPM	3150	69.2	70.1	72.9	74.5	76.5	76.9	78.3	81.7	78.4	74.3									110.5
(736. RAD/SEC)	4000	69.2	71.6	73.1	74.9	77.3	77.7	80.3	83.4	79.4	74.5									111.8
NFK 7143. RPM	5000	68.2	70.5	72.9	75.5	77.2	80.7	81.7	83.6	80.6	74.7									112.7
(748. RAD/SEC)	6300	70.5	72.2	74.5	76.5	80.2	82.9	85.0	87.4	81.8	76.8									115.6
NFD 8373. RPM	8000	72.5	74.8	77.8	79.5	83.6	86.0	88.3	89.8	84.9	79.4									118.6
(926. RAD/SEC)	10000	73.3	74.9	78.9	81.4	85.7	87.5	90.4	90.7	84.3	78.9									119.8
NO. OF BLADES 15	12500	74.1	78.2	81.9	84.9	87.2	89.9	91.6	91.6	85.7	80.1									121.9
FAN TIP SPEED	16000	73.6	78.4	81.9	84.6	87.1	89.4	91.5	91.4	84.9	79.3									122.1
613. FT/SEC	20000	72.9	77.2	81.6	84.6	86.9	89.2	92.1	92.6	85.4	79.6									122.9
	25000	70.4	73.9	78.2	81.4	84.2	86.7	89.3	90.3	84.0	77.5									121.8
	31500	69.5	72.2	76.6	79.7	82.9	85.2	87.3	88.4	81.8	74.3									120.1
	40000	65.7	69.8	72.6	76.5	79.3	82.1	83.4	84.4	78.4	69.8									117.8
	50000	64.9	67.7	69.0	72.5	75.4	78.4	78.5	79.6	74.9	66.1									115.3
	63000	65.2	66.7	65.7	67.4	70.1	71.8	71.0	72.5	68.8	63.8									111.9
	80000	68.9	70.0	67.0	67.0	68.1	68.1	67.2	67.0	66.4	65.0									114.3
OVERALL MEASURED																				
OVERALL CALCULATED		87.0	89.1	91.1	93.1	95.5	97.8	99.8	100.7	96.9	94.5									131.3
	PWL	96.2	97.8	98.5	101.1	103.4	105.2	107.1	109.1	106.5	102.9									

MODEL SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

FREQ.	60. (1.05)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	121. (2.13)	131. (2.32)	141. (2.52)	151. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
50																	
63																	
80																	
100	49.2	51.3	49.7	49.3	50.2	49.4	49.6	51.5	54.3	53.8							
125	55.8	57.5	55.9	55.5	52.5	51.6	54.3	53.9	54.2	52.9							
160	49.0	49.3	50.8	51.4	51.3	49.7	53.2	54.3	55.0	52.9							
200	47.1	49.3	50.5	52.3	54.2	54.4	55.6	55.7	55.9	54.2							
250	51.3	53.5	54.1	55.0	55.3	56.1	55.5	55.8	55.5	53.0							
315	52.7	54.1	54.3	54.9	55.3	55.2	55.4	54.7	54.6	52.0							
400	50.4	51.8	52.5	53.3	53.7	54.4	54.8	54.4	53.7	50.5							
500	46.0	49.7	50.9	52.4	53.9	54.5	54.9	54.5	53.8	48.8							
630	48.7	52.1	54.1	54.7	56.3	57.4	57.3	56.6	54.3	48.8							
800	50.3	52.2	53.7	54.8	55.9	56.5	56.7	55.4	55.4	47.7							
1000	48.1	50.3	51.8	53.4	54.8	55.4	56.0	56.0	54.7	46.4							
1250	46.5	49.5	50.8	52.3	54.2	55.3	55.8	55.8	53.9	45.3							
1600	48.3	51.0	52.1	53.2	54.5	55.8	56.4	56.4	53.7	44.1							
2000	46.9	49.3	50.7	52.2	53.4	54.1	54.4	55.1	53.8	42.8							
2500	45.5	47.9	50.6	51.9	52.7	51.4	52.2	53.9	51.6	41.4							
3150	44.4	46.1	49.4	51.1	53.2	51.9	53.1	54.7	48.6	39.4							
4000	43.8	46.4	49.2	51.5	53.0	53.1	54.5	55.9	48.8	38.5							
5000	42.6	45.3	48.7	51.4	52.9	55.8	55.7	55.7	49.6	38.1							
6300	44.1	46.8	49.6	51.9	55.2	57.3	58.2	58.5	49.5	38.4							
8000	44.9	48.2	51.8	53.8	57.6	59.2	60.1	59.4	50.6	37.1							
10000	43.0	46.7	51.3	54.1	56.1	59.1	59.8	58.1	47.4	33.7							
12500	42.2	47.7	52.2	55.3	57.3	59.1	59.1	56.0	44.9	29.1							
15000	37.6	44.1	48.5	51.4	53.6	55.1	54.6	50.8	37.3	18.9							
20000	31.5	37.8	43.4	46.1	48.4	49.4	49.5	45.3	29.8	6.8							
25000	21.2	27.4	33.1	36.8	39.0	39.6	38.6	33.5	16.1								
31500	7.9	15.1	21.4	25.1	27.6	27.4	24.7	17.7									
40000			2.5	7.3	8.9	8.4	3.3										
50000																	
63000																	
80000																	
OVERALL CALCULATED	62.3	64.4	65.5	66.7	68.2	69.3	69.8	69.4	66.7	62.4							
PNDB	71.2	73.7	75.8	77.4	79.1	80.3	81.0	81.2	76.8	68.4							

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROG. DATE = MONTH 3 DAY 28 NO. 11.9

TOTAL SCRN PRESSURE LEVELS (59, DEG. F. 70 PERCENT REL. HUM, DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	PWL
	50																		
	53																		
RADIAL 17. FT.	56																		
(5. M)	100	71.0	72.3	72.9	77.4	74.2	74.1	74.9	79.0	84.3	87.9								112.7
VEHICLE F-55	125	76.9	76.5	75.9	77.9	77.2	77.6	80.4	81.7	84.1	84.9								114.0
CONFIG 75-9	160	75.4	75.6	76.2	77.1	76.7	76.6	80.4	82.5	84.8	87.1								114.2
LOC SCHENECTADY	200	77.1	74.1	75.2	76.9	79.4	80.4	81.9	83.5	86.1	88.1								115.2
DATE 1/22/75	250	73.2	80.6	81.4	81.4	83.1	83.6	85.1	85.5	87.6	87.8								117.7
RUN 6274	315	78.9	79.4	79.7	80.1	80.9	81.6	81.4	83.6	85.8	86.6								115.8
TAPE	400	76.9	77.4	78.2	78.6	77.7	80.9	81.9	82.7	85.1	85.8								114.9
BAR 30.2 HG	500	74.1	76.9	76.6	77.4	78.7	80.6	81.7	83.0	84.3	84.6								114.2
(10257. N/M2)	630	75.4	77.4	78.7	79.7	81.2	81.1	83.4	84.5	84.3	84.1								115.6
TAMB 42. DEG F	800	77.1	77.9	78.9	79.9	81.7	82.6	83.4	83.7	85.1	83.9								115.6
(279. DEG K)	1000	75.1	74.1	77.7	78.6	80.0	81.8	83.1	84.2	84.1	82.6								114.9
TAFT 37. DEG F	1250	73.9	75.4	76.8	78.2	79.5	81.8	82.4	84.2	83.9	82.4								114.5
(276. DEG K)	1600	73.7	75.1	76.8	77.7	79.5	80.3	81.8	82.7	82.1	80.4								113.5
HART 4.35 GM/M3	2000	75.0	77.6	78.6	80.0	81.0	82.6	85.6	87.7	84.4	81.6								116.6
(.00435 KG/M3)	2500	73.7	75.4	77.4	78.5	79.0	79.1	81.1	84.0	81.2	78.9								113.4
NFA 7815. RPM	3150	72.2	73.6	75.4	77.5	78.5	78.5	79.8	83.7	80.7	77.6								112.7
(818. RAD/SEC)	4000	72.5	74.6	76.9	78.3	80.0	82.0	84.3	87.7	82.1	78.5								115.6
NFK 7946. RPM	5000	71.4	73.3	76.4	78.8	80.2	82.2	84.0	85.9	82.1	77.7								114.9
(832. RAD/SEC)	6300	73.0	76.0	78.5	79.6	84.2	86.9	87.3	90.7	84.3	79.1								118.8
NFD 8823. RPM	8000	74.5	77.1	80.8	83.1	86.1	88.7	90.5	92.3	86.3	80.9								121.1
(924. RAD/SEC)	10000	74.6	77.4	81.4	84.4	85.5	90.3	92.0	92.4	84.5	80.4								122.0
NO. OF BLADES 18	12500	74.6	80.7	84.4	87.4	89.7	92.4	94.1	94.4	88.4	83.1								124.5
FAN TIP SPEED	16000	74.6	81.9	84.9	87.3	89.4	92.3	93.7	93.2	87.0	82.1								124.4
682. FT/SEC	20000	76.4	81.7	85.8	88.2	90.8	93.0	95.8	95.1	89.1	83.1								126.3
	25000	74.4	79.2	83.5	86.2	88.5	91.7	94.0	94.6	87.7	82.0								125.5
	31500	72.5	77.3	80.8	84.2	86.9	89.5	91.8	92.4	85.6	78.6								124.2
	40000	69.4	73.8	77.1	80.3	83.0	86.4	86.9	88.4	82.6	73.1								121.7
	50000	66.4	70.9	72.7	76.5	79.2	81.9	82.3	83.1	78.7	68.6								119.8
	63000	65.4	68.2	67.4	70.1	72.8	75.3	74.5	75.5	72.0	64.8								114.8
	80000	68.4	70.3	67.0	67.0	68.1	68.6	68.2	69.2	67.1	65.0								114.7
OVERALL MEASURED																			
OVERALL CALCULATED		89.5	91.9	94.4	96.5	98.6	101.2	103.0	103.6	99.7	98.1								134.5
	PROM	99.2	100.9	102.8	104.3	106.6	108.6	109.8	112.2	108.8	105.5								

FULL SCALE DATA REDUCTION PROGRAM

PNEC. DATE = MONTH 3 DAY 28 HR. 11.9

SIDELINE NOISE LEVELS (57. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	62. (1.08)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	124. (2.16)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
FREQ.																	
50																	
63																	
SIDELINE 200. FT. (60.96 M)	80																
VEHICLE B-55	100	48.9	50.8	51.2	51.8	52.4	51.9	51.8	54.5	57.8	57.8						
CONFIG 75-0	125	54.1	54.3	54.1	53.2	53.3	53.3	57.3	57.2	57.4	56.5						
LOC SCHENECTADY	160	52.5	53.4	54.3	54.4	54.8	56.2	57.2	57.8	58.0	56.6						
DATE 1/22/75	200	53.1	51.8	53.2	55.1	57.4	57.9	58.8	58.7	59.1	57.4						
RUN 62/4	250	55.8	56.2	59.4	59.5	61.1	61.1	61.7	60.6	60.5	57.0						
TAPE	315	55.7	56.9	57.6	56.2	56.5	59.0	57.9	58.5	58.3	55.2						
BAR 30.2 HG	400	53.6	54.9	56.0	56.5	57.4	56.1	58.3	57.6	57.7	54.5						
(0.1957. N/M2)	500	51.0	52.2	54.2	55.2	56.4	57.8	57.9	57.7	56.8	53.0						
TAMB 42. DEG F	630	51.9	54.6	56.3	57.4	58.8	60.2	59.5	59.1	56.6	52.3						
(279. DEG K)	800	53.5	55.3	56.5	57.5	59.2	59.5	59.4	58.2	57.1	51.7						
TDEW 37. DEG F	1000	51.4	53.1	55.1	56.2	57.3	58.7	59.0	58.5	55.9	50.1						
(276. DEG K)	1250	50.0	52.2	54.0	55.6	56.7	58.5	58.1	58.3	55.4	49.5						
HACT 2.35 GM/M3	1600	49.6	51.8	53.9	54.9	56.5	56.8	57.1	56.6	53.4	47.1						
(.00435 KG/M3)	2000	50.6	54.1	55.5	57.0	57.9	58.9	60.9	61.4	55.3	47.9						
NFA 7815. RPM	2500	49.2	51.7	54.1	55.4	55.7	55.2	56.2	57.4	51.8	44.7						
(818. RAD/SEC)	3150	47.4	49.6	51.9	54.1	54.9	54.4	54.6	56.7	50.4	42.7						
NFK 7946. RPM	4000	47.2	50.1	52.9	55.0	56.0	57.4	58.5	60.1	51.5	42.5						
(832. RAD/SEC)	5000	45.7	48.6	52.2	53.9	55.9	57.3	57.9	58.0	51.1	41.1						
NFD 8823. RPM	6300	46.6	50.5	53.6	54.9	59.2	61.3	60.4	61.8	52.0	40.6						
(924. RAD/SEC)	8000	46.9	50.5	54.8	57.3	60.1	61.9	62.4	61.9	52.1	39.6						
NO. OF BLADES 15	10000	45.2	49.7	53.8	57.1	57.9	61.9	62.1	59.9	49.7	35.2						
FAN TIP SPEED	12500	44.7	50.2	54.7	57.8	59.8	61.6	61.6	58.8	47.6	32.1						
682. FT/SEC	16000	40.6	46.6	51.5	54.7	55.8	57.6	56.8	52.5	39.8	21.7						
	20000	35.0	42.3	47.6	50.3	52.4	53.2	53.3	47.8	33.3	10.3						
	25000	28.2	32.6	38.4	41.5	43.2	44.6	43.4	37.7	19.8							
	31500	11.9	19.8	25.7	29.6	31.6	31.6	29.0	21.7								
	40000		1.0	7.0	11.0	12.6	12.6	6.8									
	50000																
	63000																
	80000																
OVERALL CALCULATED		64.7	66.7	68.5	69.9	71.3	72.5	72.8	72.4	69.4	66.2						
PNLB		74.4	77.0	79.1	80.7	82.4	83.8	83.8	84.5	79.8	72.4						

ORIGINAL - PAGE IS OF POOR QUALITY

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM

PROG. DATE = MONTH 3 DAY 28 HR. 11.9

NOISE SOUND PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET TO DEGREES (AND RADIANS)

FREQ.	60. (1.04)	71. (1.24)	81. (1.41)	91. (1.59)	101. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.53)	156. (2.73)	0.	0.	0.	0.	0.	0.	0.	PWL
50																		
63																		
80																		
100	71.6	72.9	72.7	73.1	74.2	74.4	75.4	79.2	83.8	87.9								112.7
125	76.9	77.1	77.2	77.1	77.2	79.1	80.0	81.5	84.1	87.4								114.3
160	76.1	75.6	75.9	75.9	76.4	77.6	79.9	82.5	85.1	86.2								114.1
200	79.6	74.4	75.9	77.1	78.9	80.4	81.6	83.5	86.8	88.1								115.5
250	79.6	80.9	81.1	81.9	82.6	83.9	85.6	86.0	87.6	88.1								117.9
315	78.9	79.1	79.9	80.1	80.9	81.1	82.1	83.5	85.6	86.3								115.7
400	77.1	77.4	77.9	78.9	79.4	80.6	81.1	83.0	84.6	85.6								114.7
500	76.1	74.9	76.2	77.1	78.9	80.6	81.2	83.0	84.1	84.6								114.1
630	75.4	77.1	78.9	79.9	81.2	82.9	83.4	84.2	84.6	83.6								115.5
800	79.1	77.9	78.9	79.9	81.4	82.3	83.2	84.2	84.6	83.6								115.6
1000	81.4	75.9	77.2	77.1	80.2	81.8	82.9	84.2	83.8	82.6								115.1
1250	77.2	75.4	76.8	77.2	80.2	81.6	82.1	83.7	83.1	81.4								114.3
1600	78.4	74.9	76.3	77.7	79.5	80.6	81.4	83.2	81.6	80.1								113.7
2000	79.5	76.4	78.1	80.1	80.3	81.1	82.5	84.1	84.1	81.1								116.5
2500	73.2	74.9	77.1	78.3	79.0	79.3	81.1	84.5	80.9	78.9								113.5
3150	72.3	73.4	75.2	77.0	78.5	79.0	80.3	84.0	80.2	77.3								112.7
4000	72.2	74.1	76.9	78.8	80.0	82.0	84.3	87.2	82.6	78.0								115.5
5000	70.9	73.3	75.4	77.7	80.2	81.9	83.7	85.6	81.8	77.5								114.7
6300	72.8	75.7	78.3	79.9	84.4	87.2	87.0	90.2	84.1	78.6								118.6
8000	74.5	77.1	80.3	82.8	86.1	88.7	90.5	92.5	86.0	80.4								121.1
10000	74.3	77.6	83.1	84.2	86.2	90.0	92.0	92.4	86.0	80.4								121.9
12500	76.1	80.5	84.2	87.1	89.2	92.7	94.1	94.1	88.2	82.3								124.4
16000	74.3	80.9	84.4	87.3	89.6	92.3	94.2	93.4	86.8	81.6								124.5
20000	76.4	81.7	85.1	88.5	90.8	93.7	95.6	95.4	88.6	82.6								126.4
25000	74.1	78.9	82.7	86.9	88.5	92.2	93.5	94.3	88.2	81.7								125.4
31500	72.5	77.6	83.4	84.0	87.2	90.0	92.0	92.2	85.1	79.6								124.4
40000	69.2	73.3	77.1	80.3	83.6	86.6	87.2	88.6	82.1	73.3								121.9
50000	69.4	70.7	72.5	76.0	78.4	82.1	82.3	83.1	77.9	68.8								118.8
63000	55.2	68.0	67.2	70.1	72.8	75.8	74.8	76.3	71.5	64.8								115.1
80000	59.9	70.7	67.0	67.0	68.1	68.9	68.2	69.0	66.6	65.0								114.7
OVERALL MEASURED																		134.8
OVERALL CALCULATED	93.4	91.7	94.0	96.4	98.6	101.4	103.0	103.6	99.5	98.0								
PNLM	100.0	100.6	102.6	104.3	106.7	108.8	109.8	112.0	108.7	105.2								

RADIAL 17. FT.
(5. IN)
VEHICLE R=55
CONFIG 75-9
LOC SCHENECTADY
DATE 1/22/75
RUN 62/5
TAPE
BAR 33.2 IN HG
(81957. PA)
TAMB 42. DEG F
(279. DEG K)
THCT 37. DEG F
(276. DEG K)
HACT 4.35 GM/KG
(.00435 KG/KG)
NFA 7914. RPM
(816. RAD/SEC)
NFH 7947. RPM
(832. RAD/SEC)
NFP 8823. RPM
(924. RAD/SEC)
NO. OF BLADES 15
FAN TIP SPEED
682. FT/SEC

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 28 HR. 11.9

MODEL SCALE PRESSURE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. PAT)
ANGLES FROM INLET IN DEGREES (AND RADIANS)

		60. (1.05)	72. (1.26)	84. (1.47)	96. (1.68)	108. (1.88)	120. (2.09)	132. (2.30)	144. (2.51)	156. (2.72)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)	0. (0.)
	FREQ.																
	50																
	63																
SIDELINE 200. FT.	80																
(60.96 M)	100	48.9	50.8	51.0	51.5	52.4	52.2	52.3	54.8	57.3	57.8						
VEHICLE R-55	125	54.1	55.3	54.4	55.5	55.3	56.8	57.8	56.9	57.4	57.1						
CONFIG 79-9	160	53.2	53.4	54.1	54.1	54.5	56.2	56.7	57.8	58.3	56.4						
LOC SCHENECTADY	200	50.6	52.1	54.0	55.3	57.9	57.9	58.3	58.7	59.9	57.4						
DATE 1/22/75	250	55.5	55.5	59.1	60.6	60.6	61.3	62.2	61.1	60.5	57.2						
RUN 62/5	315	55.7	55.6	57.8	58.2	58.8	58.5	58.6	58.5	58.3	55.3						
TAPE	400	53.9	54.8	55.7	56.3	57.2	57.9	57.5	57.9	57.2	54.3						
BAR 30.2 HG	500	52.8	52.2	53.9	55.0	56.6	57.8	57.4	57.7	56.5	53.0						
(01957. N/M2)	630	51.9	54.4	56.6	57.7	58.8	59.9	59.5	57.9	56.8	51.8						
TAMB 42. DEG F	800	54.5	55.0	56.5	57.5	58.9	59.3	59.2	58.7	56.6	51.5						
(279. DEG K)	1000	57.5	52.8	54.6	55.7	57.6	58.7	58.4	58.5	55.7	50.1						
TWET 37. DEG F	1250	53.3	52.2	54.0	55.6	57.4	58.3	57.8	57.8	54.7	48.5						
(276. DEG K)	1600	54.3	51.5	53.4	54.9	56.5	57.1	56.9	57.1	52.9	46.9						
HACT 4.35 GM/M3	2000	51.1	52.8	55.0	57.0	57.6	59.4	60.0	61.4	55.1	47.4						
(.00435 KG/M3)	2500	48.7	51.2	53.9	55.1	55.7	55.4	56.2	57.9	51.6	44.7						
NFA 7816. RPM	3150	47.2	49.4	51.6	53.6	54.2	54.9	55.1	57.0	50.3	42.4						
(818. RAD/SEC)	4000	46.9	49.6	52.9	55.0	56.3	57.4	58.5	59.6	52.0	42.8						
NFK 7947. RPM	5000	45.4	48.6	51.2	53.7	55.9	57.0	57.7	57.7	50.8	40.9						
(832. RAD/SEC)	6300	46.4	50.3	53.4	55.1	59.5	61.6	60.2	61.3	51.8	40.1						
NFB 8823. RPM	8000	46.9	50.5	54.3	57.0	60.1	61.9	62.4	62.1	51.8	39.1						
(924. RAD/SEC)	10000	45.0	49.4	52.6	56.8	58.6	61.6	62.1	59.9	49.2	35.2						
NO. OF BLADES 15	12500	44.2	50.0	54.4	57.6	59.3	61.9	61.6	58.5	47.4	31.4						
FAN TIP SPEED	16000	40.3	46.6	51.3	54.2	56.1	57.6	57.3	52.8	39.5	21.2						
602. FT/SEC	20000	35.3	42.3	46.9	50.6	52.4	53.9	53.0	46.0	32.8	9.8						
	25000	24.9	32.4	37.6	41.3	43.2	45.1	42.9	37.5	20.4							
	31500	12.2	19.8	25.7	29.4	31.9	32.1	29.5	21.4								
	40000		0.5	7.3	11.0	12.6	12.9	7.0									
	50000																
	63000																
	80000																
OVERALL CALCULATED		65.8	66.6	68.3	69.8	71.3	72.6	72.7	72.5	69.3	66.1						
	PNLB	75.3	76.6	78.9	80.7	82.5	83.9	83.8	84.3	78.8	72.1						

PAGE 1 FULL SCALE DATA REDUCTION PROGRAM PROC. DATE = MONTH 3 DAY 28 HR. 11.9

TUNNEL SPEED REFERENCE LEVELS (59. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLES FROM INLET IN DEGREES (AND RADIANS)

	FREQ.	52. (1.00)	71. (1.24)	81. (1.41)	91. (1.59)	104. (1.76)	111. (1.94)	124. (2.13)	133. (2.32)	145. (2.52)	156. (2.73)	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	0. (0.	PNL
	50																		
	63																		
RADIAL 17. FT.	80																		
(5. M)	100	77.2	81.2	83.0	82.5	81.6	78.5	73.0	72.2	75.8	77.7								113.8
VEHICLE RUN6	125	68.7	71.4	69.2	72.3	69.4	68.0	71.7	72.2	72.3	75.2								104.8
CONFIG 75-9	160	65.3	63.9	66.5	66.5	66.5	68.0	69.7	71.7	73.0	75.2								103.2
LOC SCHENECTADY	200	63.3	65.1	66.2	67.1	67.3	69.6	71.5	73.2	75.0	76.9								104.6
DATE 1/22/75	250	67.9	69.6	69.7	69.5	70.9	72.3	73.0	73.4	74.0	74.9								105.5
RUN 62/6	315	69.4	69.9	69.7	69.9	70.9	70.8	71.7	72.4	73.5	74.1								105.0
TAPE	400	67.2	67.9	68.5	68.8	69.9	70.5	71.7	71.7	72.5	73.4								104.1
BAR 30.2 MB	500	65.2	66.1	67.2	68.1	69.7	71.0	72.0	73.2	73.3	73.4								104.2
(01957. N/M2)	630	66.7	68.9	70.5	71.6	73.7	74.8	75.3	75.7	75.8	73.4								107.1
TAMB 42. DEG F	800	68.2	69.1	70.5	70.8	72.9	74.0	74.7	75.7	76.0	72.4								108.7
(279. DEG K)	1000	65.7	66.9	68.7	69.6	71.9	73.2	75.2	76.4	76.5	71.9								106.6
TACT 37. DEG F	1250	67.0	64.9	69.8	71.4	73.2	75.5	77.0	80.0	79.8	74.4								109.5
(276. DEG K)	1600	64.3	65.1	66.6	67.9	72.2	72.8	74.2	74.5	75.3	70.2								105.1
HACT 4.35 GM/M3	2000	62.9	63.9	65.6	66.9	68.2	68.7	69.8	71.0	71.3	68.2								101.9
(.00435 KG/M3)	2500	63.3	65.1	67.7	68.7	70.3	70.7	71.5	75.2	74.8	68.9								104.6
NFA 5476. RPM	3150	61.5	62.9	64.7	66.5	68.5	68.9	70.2	74.0	73.1	68.9								103.0
(573. RAD/SEC)	4000	62.5	63.3	65.9	66.7	70.7	70.4	73.6	76.7	75.8	69.6								105.5
NFF 5568. RPM	5000	62.0	63.5	65.9	67.2	69.9	73.6	75.3	76.4	76.5	70.0								106.2
(583. RAD/SEC)	6300	64.5	67.0	68.8	70.5	74.2	76.9	80.1	81.1	78.7	72.4								110.2
NFS 8429. RPM	8000	67.5	68.6	71.3	74.0	77.4	79.2	81.6	82.8	81.2	74.2								112.3
(924. RAD/SEC)	10000	75.9	81.1	85.7	86.6	86.2	86.2	88.4	90.1	84.7	79.2								120.3
NO. OF BLADES 19	12500	76.1	81.5	86.7	89.0	88.6	88.8	89.7	91.4	85.6	79.9								122.4
FAN TIP SPEED	16000	68.4	71.4	76.2	80.3	82.9	84.4	86.5	86.7	81.4	75.4								117.3
478. FT/SEC	20000	65.0	68.4	72.1	75.4	78.8	81.9	84.4	86.6	81.6	74.4								115.9
	25000	62.7	64.7	68.8	71.8	75.2	77.6	80.1	82.3	78.9	70.5								112.4
	31500	61.1	63.7	67.6	71.1	74.7	76.4	78.6	80.4	75.2	68.1								111.6
	40000	59.2	61.3	64.1	67.8	70.7	73.0	74.5	76.6	72.3	63.6								109.5
	50000	58.5	61.2	61.3	63.2	66.9	69.0	69.4	71.4	68.1	59.6								106.8
	63000	57.7	61.0	59.3	59.6	62.1	63.2	62.6	64.2	61.4	57.4								104.0
	80000	62.5	60.3	60.5	59.4	59.6	59.5	58.6	59.2	57.6	57.0								106.4
OVERALL MEASURED																			
OVERALL CALCULATED		87.5	87.3	91.0	92.5	93.3	93.4	95.1	96.6	92.6	88.5								127.3
	PNLM	91.7	95.1	98.1	99.2	99.9	100.5	102.4	104.0	101.6	97.3								

FULL SCALE DATA REDUCTION PROGRAM

PROC. DATE = MONTH 3 DAY 28 HR. 11.9

NOISE SOURCE PRESSURE LEVELS (50. DEG. F. 70 PERCENT REL. HUM. DAY)

ANGLE FROM INLET IN DEGREES (and RADIANS)

	FREQ.	40. (1.57)	70. (1.4)	80. (1.40)	90. (1.57)	100. (1.76)	110. (1.94)	120. (2.13)	130. (2.32)	140. (2.52)	150. (2.73)	0.	0.	0.	0.	0.	0.	0.
	50																	
	63																	
SIDELINE 200. FT.	80																	
(60.96 M)	100	54.5	59.1	61.3	61.0	59.9	56.3	49.9	47.8	49.2	47.6							
VEHICLE B-55	125	45.9	49.2	45.4	50.6	45.6	45.7	48.4	47.7	45.6	44.9							
CONFIG 75-9	160	45.8	48.7	44.6	44.3	43.8	45.7	46.5	47.1	46.2	44.7							
LOC SCHENECTADY	200	45.9	49.8	44.3	45.5	46.9	47.3	48.2	48.4	48.0	46.2							
DATE 1/22/75	250	46.1	47.2	47.7	47.5	48.1	48.7	48.8	48.6	48.9	44.0							
RUN 62/5	315	46.3	47.4	47.6	47.9	48.3	48.1	48.2	47.5	48.3	43.1							
TAPE	400	47.2	45.3	46.3	46.5	47.7	47.8	48.1	46.6	45.1	42.1							
BAR 30.2 HG	500	41.5	43.5	45.9	45.9	47.4	48.2	48.3	48.0	45.7	41.5							
(1957. KG/M2)	630	43.2	46.1	48.1	49.3	51.3	51.6	51.4	50.3	48.0	41.6							
TAMB 42. DEG F	800	41.6	45.2	48.0	48.5	50.4	51.3	50.7	50.2	47.1	40.3							
(279. DEG K)	1000	41.9	43.5	46.1	47.1	49.3	50.1	51.1	50.7	48.3	39.4							
TAIR 37. DEG F	1250	43.1	45.7	47.1	48.9	50.1	52.2	54.7	54.1	51.4	41.5							
(276. DEG K)	1600	39.9	41.8	43.7	45.1	47.3	48.5	49.7	48.3	46.6	36.9							
HAIR 4.35 GM/M3	2000	37.7	40.4	42.5	44.0	45.1	45.3	44.7	44.6	42.3	34.4							
(0.00435 KG/M3)	2500	38.5	41.4	44.4	45.6	46.9	46.5	46.5	45.6	45.5	34.7							
NFA 5176. RPM	3150	34.7	38.9	41.2	43.1	45.2	44.4	44.9	47.0	43.2	32.0							
(542. RAD/SEC)	4000	37.2	38.9	42.0	44.9	46.7	45.6	47.9	49.1	45.2	33.6							
NFP 5568. RPM	5000	36.4	38.3	41.7	43.1	45.7	46.7	49.3	48.5	45.5	33.4							
(583. RAD/SEC)	6300	38.4	41.5	43.9	45.8	49.2	51.2	53.3	52.2	48.5	33.9							
NFD 8823. RPM	8000	37.9	42.0	45.3	48.2	51.3	52.3	53.5	52.4	47.0	32.9							
(924. RAD/SEC)	10000	46.5	52.9	58.1	58.3	59.6	57.8	58.4	57.6	47.6	34.0							
NO. OF BLADES 18	12500	41.2	51.0	57.0	59.5	59.8	58.0	57.1	55.8	44.8	28.9							
FAN TIP SPEED	16000	32.4	37.1	42.8	47.1	49.3	49.7	49.7	46.0	34.2	15.0							
478. FT/SEC	20000	23.5	28.0	33.9	37.5	40.4	42.1	41.9	38.3	25.2	1.6							
	25000	13.5	19.1	23.7	27.2	30.0	30.5	29.4	25.5	9.0								
	31500	3.5	8.6	12.5	16.6	19.3	18.6	16.1	9.7									
	40000					0.3												
	50000																	
	63000																	
	80000																	
OVERALL CALCULATED		53.7	62.2	65.8	66.9	66.1	65.2	65.2	64.4	60.3	54.9							
	PNLB	65.5	69.2	72.6	73.9	74.6	74.5	75.5	74.9	71.0	61.5							